URBAN STUDIES AND PLANNING (COURSE 11)

Introductory Subjects

11.001[J] Introduction to Urban Design and Development
Same subject as 4.250[J]
Prereq: None
U (Spring)
3-0-9 units. HASS-H

Examines the evolving structure of cities and the way that cities, suburbs, and metropolitan areas can be designed and developed. Surveys the ideas of a wide range of people who have addressed urban problems. Stresses the connection between values and design. Demonstrates how physical, social, political and economic forces interact to shape and reshape cities over time. Introduces links between urban design and urban science.

L. Vale (fall); A. Sevtsuk (spring)

11.002[J] Making Public Policy
Same subject as 17.30[J]
Prereq: None
U (Fall)
4-0-8 units. HASS-S; CI-H

Examines how the struggle among competing advocates shapes the outputs of government. Considers how conditions become problems for government to solve, why some political arguments are more persuasive than others, why some policy tools are preferred over others, and whether policies achieve their goals. Investigates the interactions among elected officials, think tanks, interest groups, the media, and the public in controversies over global warming, urban sprawl, Social Security, health care, education, and other issues.

Staff

11.003[J] Methods of Policy Analysis
Same subject as 17.303[J]
Prereq: 11.002[J]; Coreq: 14.01
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-9 units. HASS-S

Provides students with an introduction to public policy analysis. Examines various approaches to policy analysis by considering the concepts, tools, and methods used in economics, political science, and other disciplines. Students apply and critique these approaches through case studies of current public policy problems.

C. Abbanat

11.004[J] People and the Planet: Environmental Histories and Engineering
Same subject as STS.033[J]
Subject meets with 11.204[J], IDS.524[J]
Prereq: None
U (Fall)
Not offered regularly; consult department
3-3-6 units. HASS-E

Explores historical and cultural aspects of complex environmental problems and engineering approaches to sustainable solutions. Introduces quantitative analyses and methodological tools to understand environmental issues that have human and natural components. Demonstrates concepts through a series of historical and cultural analyses of environmental challenges and their engineering responses. Builds writing, quantitative modeling, and analytical skills in assessing environmental systems problems and developing engineering solutions. Through environmental data gathering and analysis, students engage with the challenges and possibilities of engineering in complex, interacting systems, and investigate plausible, symbiotic, systems-oriented solutions. Students taking graduate version complete additional analysis of reading assignments and a more in-depth and longer final paper.

A. Slocum, R. Scheffler, J. Trancik

11.005 Introduction to International Development
Prereq: None
U (Spring)
3-0-9 units. HASS-S

Introduces the political economy of international economic development planning, using an applied, quantitative approach. Considers why some countries are able to develop faster than others. Presents major theories and models of development and underdevelopment, providing tools to understand the mechanisms and processes behind economic growth and broader notions of progress. Offers an alternative view of development, focusing on the persistence of dichotomies in current theory and practice. Using specific cases, explores how different combinations of actors and institutions at various scales may promote or inhibit economic development. Students re-examine conventional knowledge and engage critically with the assumptions behind current thinking and policy.

Staff
11.006 Poverty and Economic Security
Subject meets with 11.206
Prereq: None
Acad Year 2023-2024: U (Fall)
Acad Year 2024-2025: Not offered
3-0-9 units. HASS-S
Explores the evolution of poverty and economic security in the US within a global context. Examines the impacts of recent economic restructuring and globalization. Reviews current debates about the fate of the middle class, sources of increasing inequality, and approaches to advancing economic opportunity and security. Students taking graduate version complete additional assignments. A. Glasmeier

11.007 Urban and Environmental Technology Implementation Lab
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
2-2-8 units
Real-world clients and environmental problems form the basis of a project in which teams of students develop strategies for analysis and implementation of new sensor technology within cities. Working closely with a partner or client based on the MIT campus or in Cambridge, students assess the environmental problem, implement prototypes, and recommend promising solutions to the client for implementation. Equipment and working space provided. Limited to 12.
D. Hsu

11.008 Undergraduate Planning Seminar (New)
Prereq: None
U (Fall)
2-0-4 units
Can be repeated for credit.
A weekly seminar that includes discussions on topics in cities and urban planning, including guest lectures from DUSP faculty and practicing planners. Topics include urban science, zoning, architecture and urban design, urban sociology, politics and public policy, transportation and mobility, democratic governance, civil rights and social justice, urban economics, affordable housing, environmental policy and planning, real estate and economic development, agriculture and food policy, public health, and international development. Weekly student presentations on local planning issues and current events; occasional walking tours or arranged field trips. May be repeated for credit. Enrollment may be limited; preference to Course 11 and 11-6 sophomores and juniors.
E. Glenn

11.011 The Art and Science of Negotiation
Prereq: None
U (Fall)
3-0-9 units. HASS-S
Introduction to negotiation theory and practice. Applications in government, business, and nonprofit settings are examined. Combines a “hands-on” personal skill-building orientation with a look at pertinent tactical and strategic foundations. Preparation insights, persuasion tools, ethical benchmarks, and institutional influences are examined as they shape our ability to analyze problems, negotiate agreements, and resolve disputes in social, organizational, and political circumstances characterized by interdependent interests. Enrollment limited by lottery; consult class website for information and deadlines.
B. Verdini

11.013[J] American Urban History
Same subject as 21H.217[J]
Prereq: None
Acad Year 2023-2024: U (Spring)
Acad Year 2024-2025: Not offered
2-0-7 units. HASS-H; CI-H
Seminar on the history of institutions and institutional change in American cities from roughly 1850 to the present. Among the institutions to be looked at are political machines, police departments, courts, schools, prisons, public authorities, and universities. Focuses on readings and discussions.
E. Glenn

11.014[J] History of the Built Environment in the US
Same subject as 21H.218[J]
Prereq: None
U (Fall)
Not offered regularly; consult department
2-0-7 units. HASS-H; CI-H
Seminar on the history of selected features of the physical environment of urban America. Among the features considered are parks, cemeteries, tenements, suburbs, zoos, skyscrapers, department stores, supermarkets, and amusement parks.
R. M. Fogelson

11.015[J] Riots, Strikes, and Conspiracies in American History
Same subject as 21H.226[J]
Prereq: None
U (Fall)
Not offered regularly; consult department
3-0-9 units. HASS-H; CI-H
See description under subject 21H.226[J].
A. Pope
11.016[J] The Once and Future City
Same subject as 4.211[J]
Prereq: None
U (Spring)
Not offered regularly; consult department
3-0-9 units. HASS-H; CI-H
Examines the evolving structure of cities, the dynamic processes that shape them, and the significance of a city’s history for its future development. Develops the ability to read urban form as an interplay of natural processes and human purposes over time. Field assignments in Boston provide the opportunity to use, develop, and refine these concepts. Enrollment limited.
A. Spirn

11.021[J] Environmental Law, Policy, and Economics: Pollution Prevention and Control
Same subject as 1.801[J], 17.393[J], IDS.060[J]
Subject meets with 1.811[J], 11.630[J], 15.663[J], IDS.540[J]
Prereq: None
U (Spring)
3-0-9 units. HASS-S
Analyzes federal and state regulation of air and water pollution, hazardous waste, greenhouse gas emissions, and production/use of toxic chemicals. Analyzes pollution/climate change as economic problems and failure of markets. Explores the role of science and economics in legal decisions. Emphasizes use of legal mechanisms and alternative approaches (i.e., economic incentives, voluntary approaches) to control pollution and encourage chemical accident and pollution prevention. Focuses on major federal legislation, underlying administrative system, and common law in analyzing environmental policy, economic consequences, and role of the courts. Discusses classical pollutants and toxic industrial chemicals, greenhouse gas emissions, community right-to-know, and environmental justice. Develops basic legal skills: how to read/understand cases, regulations, and statutes. Students taking graduate version explore the subject in greater depth.
N. Ashford, C. Caldart

11.022[J] Regulation of Chemicals, Radiation, and Biotechnology
Same subject as 1.802[J], IDS.061[J]
Subject meets with 1.812[J], 10.805[J], 11.631[J], IDS.436[J], IDS.541[J]
Prereq: IDS.060[J] or permission of instructor
U (Spring)
Not offered regularly; consult department
3-0-9 units
Focuses on policy design and evaluation in the regulation of hazardous substances and processes. Includes risk assessment, industrial chemicals, pesticides, food contaminants, pharmaceuticals, radiation and radioactive wastes, product safety, workplace hazards, indoor air pollution, biotechnology, victims’ compensation, and administrative law. Health and economic consequences of regulation, as well as its potential to spur technological change, are discussed for each regulatory regime. Students taking the graduate version are expected to explore the subject in greater depth.
N. Ashford, C. Caldart

11.024 Modeling Pedestrian Activity in Cities
Subject meets with 11.324
Prereq: None
U (Spring)
3-0-9 units
Investigates the interaction between pedestrian activity, urban form, and land-use patterns in relatively dense urban environments. Informed by recent literature on pedestrian mobility, behavior, and biases, subject takes a practical approach, using software tools and analysis methods to operationalize and model pedestrian activity. Uses simplified yet powerful and scalable network analysis methods that focus uniquely on pedestrians, rather than engaging in comprehensive travel demand modeling across all modes. Emphasizes not only modeling or predicting pedestrian activity in given built settings, but also analyzing and understanding how changes in the built environment — land use changes, density changes, and connectivity changes — can affect pedestrian activity. Students taking graduate version complete additional assignments.
A. Sevtsuk

11.025[J] D-Lab: Development
Same subject as EC.701[J]
Subject meets with 11.472[J], EC.781[J]
Prereq: None
U (Fall)
3-2-7 units. HASS-S
See description under subject EC.701[J]. Enrollment limited by lottery; must attend first class session.
S. L. Hsu, B. Sanyal
11.026[J] Downtown
Same subject as 21H.321[J]
Subject meets with 11.339
Prereq: None
U (Spring)
Not offered regularly; consult department
2-0-7 units. HASS-H
See description under subject 21H.321[J].
R. M. Fogelson

11.027 City to City: Comparing, Researching, and Reflecting on Practice
Prereq: None
Acad Year 2023-2024: U (Spring)
Acad Year 2024-2025: Not offered
3-0-9 units. HASS-S
Introduces students to practice through researching, writing, and working for and with nonprofits. Students work directly with nonprofits and community partners to help find solutions to real world problems; interview planners and other field experts, and write and present findings to nonprofit partners and community audiences.
C. Abbanat

11.029[J] Mobility Ventures: Driving Innovation in Transportation Systems
Same subject as 15.379[J]
Subject meets with 11.529[J], 15.379[J]
Prereq: None
U (Fall)
3-3-6 units
Explores technological, behavioral, policy, and systems-wide frameworks for innovation in transportation systems, complemented with case studies across the mobility spectrum, from autonomous vehicles to urban air mobility to last-mile sidewalk robots. Students interact with a series of guest lecturers from CEOs and other business and government executives who are actively reshaping the future of mobility. Interdisciplinary teams of students collaborate to deliver business plans for proposed mobility-focused startups with an emphasis on primary market research. Students taking graduate version complete additional assignments. Preference to juniors and seniors.
J. Zhao, J. Moavenzadeh, J. Larios Berlin

11.041 Introduction to Housing, Community, and Economic Development
Subject meets with 11.401
Prereq: None
U (Fall)
3-0-9 units. HASS-S
Provides a critical introduction to the shape and determinants of political, social, and economic inequality in America, with a focus on racial and economic justice. Explores the role of the city in visions of justice. Analyzes the historical, political, and institutional contexts of housing and community development policy in the US, including federalism, municipal fragmentation, and decentralized public financing. Introduces major dimensions in US housing policy, such as housing finance, public housing policy, and state and local housing affordability mechanisms. Reviews major themes in community economic development, including drivers of economic inequality, small business policy, employment policy, and cooperative economics. Expectations and evaluation criteria differ for students taking graduate version.
J. Steil

11.045[J] Power: Interpersonal, Organizational, and Global Dimensions
Same subject as 15.302[J], 17.045[J], 21A.127[J]
Subject meets with 21A.129
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-9 units. HASS-S
See description under subject 21A.127[J].
S. Silbey
11.067 Land Use Law and Politics: Race, Place, and Law
Subject meets with 11.367
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-9 units. HASS-S

Explores conceptions of spatial justice and introduces students to basic principles of US law and legal analysis, focused on property, land use, equal protection, civil rights, fair housing, and local government law, in order to examine who should control how land is used. Examines the rights of owners of land and the types of regulatory and market-based tools that are available to control land use, and discusses why and when government regulation, rather than private market ordering, might be necessary to control land use patterns. Explores basic principles of civil rights and anti-discrimination law and focuses on particular civil rights problems associated with the land use regulatory system, such as exclusionary zoning, residential segregation, the fair distribution of undesirable land uses, and gentrification. Introduces basic skills of statutory drafting and interpretation. Assignments differ for those taking the graduate version.

J. Steil

11.074 Cybersecurity Clinic
Subject meets with 11.274
Prereq: None
U (Fall, Spring)
2-4-6 units. REST

Provides an opportunity for MIT students to become certified in methods of assessing the vulnerability of public agencies (particularly agencies that manage critical urban infrastructure) to the risk of cyberattack. Certification involves completing an 8-hour, self-paced, online set of four modules during the first four weeks of the semester followed by a competency exam. Students who successfully complete the exam become certified. The certified students work in teams with client agencies in various cities around the United States. Through direct interactions with the agencies, and short on-site visits, teams prepare vulnerability assessments that client agencies can use to secure the technical assistance and financial support they need to manage the risks of cyberattack they are facing. Students taking graduate version complete additional assignments. Limited to 15.

L. Susskind

11.092 Renewable Energy Facility Siting Clinic (New)
Subject meets with 11.592
Prereq: None
U (Fall, Spring)
2-4-6 units

Presents methods for resolving facility siting disputes, particularly those involving renewable energy. After completing four modules and a competency exam for MITx certification, students work in teams to help client communities in various cities around the United States. Through direct interactions with the proponents and opponents of facilities subject to local opposition, students complete a stakeholder assessment and offer joint fact-finding and collaborative problem-solving assistance. The political, legal, financial, and regulatory aspects of facility siting, particularly for renewable energy, are reviewed along with key infrastructure planning principles. Students taking the graduate version complete additional assignments. Limited to 15.

L. Susskind

Specialized Subjects

11.100 Introduction to Computational Thinking in Cities
Prereq: None. Coreq: 6.100B
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Fall)
1-0-2 units

Highlights how computer science may inform and impact how cities are conceptualized, planned, designed, regulated, and managed. The first half of the class explores the history of computational approaches in urban planning between around 1950 and 2020. The second half attempts to connect the data science concepts learned in 6.100B to topics in city planning and design. Subject can count toward the 6-unit discovery-focused credit limit for first-year students.

A. Sevtsuk

11.107 Tools and Techniques for Inclusive Economic Development
Subject meets with 11.407
Prereq: None
U (Fall)
3-0-9 units. HASS-S

Introduces tools and techniques in economic development planning. Extensive use of data collection, analysis, and display techniques. Students build interpretive intuition skills through user experience design activities and develop a series of memos summarizing the results of their data analysis. These are aggregated into a final report, and include the tools developed over the semester. Students taking graduate version complete modified assignments focused on developing computer applications.

A. Glasmeier
11.111[J] Leadership in Negotiation: Advanced Applications
Same subject as 17.381[J]
Prereq: 11.011 or permission of instructor
U (Fall)
4-0-8 units. HASS-S

Building on the skills and strategies honed in 11.011, explores advanced negotiation practice. Emphasizes an experiential skill-building approach, underpinned by cutting-edge cases and innovative research. Examines applications in high-stakes management, public policy, social entrepreneurship, international diplomacy, and scientific discovery. Strengthens collaborative decision-making, persuasion, and leadership skills by negotiating across different media and through personalized coaching, enhancing students' ability to proactively engage stakeholders, transform organizations, and inspire communities. Limited by lottery; consult class website for information and deadlines.

B. Verdini

11.113 The Economic Approach to Cities and Environmental Sustainability
Subject meets with 11.413
Prereq: 1.010, 14.30, 18.650[J], or permission of instructor
U (Spring)
Not offered regularly; consult department
3-0-9 units. HASS-S
Can be repeated for credit.

Provides a systematic framework of the interplay (both tension and synergy) between urbanization and environmental sustainability from a global perspective. Enhances analytical reasoning and quantitative skills to assist evidence-based empirical study and policy design evaluation. Explores the causes and consequences of urban environmental quality dynamics, and provides econometric tools to quantify such relationships. Examines state-of-the-art research in this field by introducing empirical studies from both developing and developed countries (highlighting fast urbanization). Themes include urban production, households, transportation and form, as well as political economy and climate resilience. Students taking graduate version complete additional assignments.

S. Zheng

11.122[J] Law, Technology, and Public Policy
Same subject as IDS.066[J]
Subject meets with 11.422[J], 15.655[J], IDS.435[J]
Prereq: None
U (Fall)
3-0-9 units. HASS-S

See description under subject IDS.066[J].
N. Ashford, C. Caldart

11.123 Big Plans and Mega-Urban Landscapes
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-6 units. HASS-S

Explores the physical, ecological, technological, political, economic and cultural implications of big plans and mega-urban landscapes in a global context. Uses local and international case studies to understand the process of making major changes to urban landscape and city fabric, and to regional landscape systems. Includes lectures by leading practitioners. Assignments consider planning and design strategies across multiple scales and time frames.

A. Berger

11.124[J] Introduction to Education: Looking Forward and Looking Back on Education
Same subject as CMS.586[J]
Prereq: None
U (Fall)
3-6-3 units. HASS-S; CI-H

See description under subject CMS.586[J]. Limited to 25.
E. Klopfer

11.125[J] Introduction to Education: Understanding and Evaluating Education
Same subject as CMS.587[J]
Prereq: None
U (Spring)
3-6-3 units. HASS-S; CI-H

See description under subject CMS.587[J]. Limited to 25.
E. Klopfer

11.127[J] Design and Development of Games for Learning
Same subject as CMS.590[J]
Subject meets with 11.252[J], CMS.863[J]
Prereq: None
U (Spring)
3-6-3 units. HASS-H

See description under subject CMS.590[J].
E. Klopfer
11.129[J] Educational Theory and Practice I
Same subject as CMS.591[J]
Prereq: None. Coreq: CMS.586[J]
U (Fall)
3-0-9 units. HASS-S

See description under subject CMS.591[J]. Limited to 15; preference to juniors and seniors.
G. Schwanbeck

11.130[J] Educational Theory and Practice II
Same subject as CMS.592[J]
Prereq: CMS.591[J]
U (IAP)
3-0-9 units

See description under subject CMS.592[J].
G. Schwanbeck

11.131[J] Educational Theory and Practice III
Same subject as CMS.593[J]
Prereq: CMS.592[J]
U (Spring)
3-0-9 units. HASS-S

See description under subject CMS.593[J].
G. Schwanbeck

11.133[J] Dilemmas in Biomedical Ethics: Playing God or Doing Good?
Same subject as 21A.302[J], WGS.271[J]
Prereq: None
U (Fall)
Not offered regularly; consult department
3-0-9 units. HASS-S

An introduction to the cross-cultural study of biomedical ethics. Examines moral foundations of the science and practice of western biomedicine through case studies of abortion, contraception, cloning, organ transplantation and other issues. Evaluates challenges that new medical technologies pose to the practice and availability of medical services around the globe, and to cross-cultural ideas of kinship and personhood. Discusses critiques of the biomedical tradition from anthropological, feminist, legal, religious, and cross-cultural theorists.
E. C. James

11.134[J] Infections and Inequalities: Interdisciplinary Perspectives on Global Health
Same subject as HST.431[J]
Prereq: None
U (Spring)
Not offered regularly; consult department
3-0-9 units. HASS-S

Examines case studies in infectious disease outbreaks to demonstrate how human health is a product of multiple determinants, such as biology, sociocultural and historical factors, politics, economic processes, and the environment. Analyzes how structural inequalities render certain populations vulnerable to illness and explores the moral and ethical dimensions of public health and clinical interventions to promote health. Limited to 25.
E. James, A. Chakraborty

11.135 Violence, Human Rights, and Justice
Prereq: None
U (Spring)
Not offered regularly; consult department
3-0-9 units. HASS-S

An examination of the problem of mass violence and oppression in the contemporary world, and of the concept of human rights as a defense against such abuse. Explores questions of cultural relativism, race, gender and ethnicity. Examines case studies from war crimes tribunals, truth commissions, anti-terrorist policies and other judicial attempts to redress state-sponsored wrongs. Considers whether the human rights framework effectively promotes the rule of law in modern societies. Students debate moral positions and address ideas of moral relativism.
E. C. James

11.136 Global Mental Health
Prereq: None
U (Fall)
Not offered regularly; consult department
3-0-9 units. HASS-S

Provides skills to critically analyze issues of mental health in historical and cross-cultural contexts. Studies mental illness as a complex biopsychosocial experience embedded in particular political and economic frameworks. Examines the relationships among culture, gender, embodiment, and emotional distress; power inequalities and ideas of the "normal" and "abnormal," and how such conceptions influence care-giving practices, whether in traditional or biomedical contexts. Evaluates how the disciplines of psychology, psychoanalysis, and psychiatry have developed in the West, and considers their influence on mental health interventions in global settings. Limited to 25.
E. James
11.137 Financing Economic Development and Housing
Subject meets with 11.437
Prereq: None
U (Spring)
4-0-8 units
Studies financing tools and program models to support and promote local economic development and housing. Overview of public and private capital markets and financing sources helps illustrate market imperfections that constrain economic and housing development and increase race and class disparities. Explores federal housing and economic development programs as well as state and local public finance tools. Covers policies and program models. Investigates public finance practice to better understand how these finance programs affect other municipal operations. Students taking graduate version complete additional assignments. Limited to 25.
J. Levine

11.138 Crowd Sourced City: Civic Tech Prototyping
Subject meets with 11.458
Prereq: None
U (Fall)
3-0-9 units. HASS-S
Investigates the use of social medial and digital technologies for planning and advocacy by working with actual planning and advocacy organizations to develop, implement, and evaluate prototype digital tools. Students use the development of their digital tools as a way to investigate new media technologies that can be used for planning. Students taking graduate version complete additional assignments.
S. Williams, C. D'Ignazio

11.139 The City in Film
Subject meets with 11.239
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
2-2-5 units. HASS-H; CI-H
Surveys important developments in urbanism from 1900 to the present, using film as a lens to explore and interpret aspects of the urban experience in the US and abroad. Topics include industrialization, demographics, diversity, the environment, and the relationship between the community and the individual. Films vary from year to year but always include a balance of classics from the history of film, an occasional experimental/avant-garde film, and a number of more recent, mainstream movies. Students taking undergraduate version complete writing assignments that focus on observation, analysis, and the essay, and give an oral presentation. Limited to 18.
E. Glenn

11.140 Urbanization and Development
Prereq: None
U (Spring)
Not offered regularly; consult department
3-0-9 units. HASS-S
Examines developmental dynamics of rapidly urbanizing locales, with a special focus on the developing world. Case studies from India, China, Mexico, Brazil, and South Africa form the basis for discussion of social, spatial, political and economic changes in cities spurred by the decline of industry, the rise of services, and the proliferation of urban mega projects. Emphasizes the challenges of growing urban inequality, environmental risk, citizen displacement, insufficient housing, and the lack of effective institutions for metropolitan governance.
Staff

11.142 Geography of the Global Economy
Subject meets with 11.442
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Fall)
3-0-9 units. HASS-S
Analyzes implications of economic globalization for communities, regions, international businesses and economic development organizations. Uses spatial analysis techniques to model the role of energy resources in shaping international political economy. Investigates key drivers of human, physical, and social capital flows and their roles in modern human settlement systems. Surveys contemporary models of industrialization and places them in geographic context. Connects forces of change with their implications for the distribution of wealth and human well-being. Looks backward to understand pre-Covid conditions and then returns to the present to understand how a global pandemic changes the world. Class relies on current literature and explorations of sectors. Students taking graduate version complete additional assignments.
A. Glasmeier
11.143 Research Methods in Global Health and Development
Subject meets with 11.243
Prereq: None
U (Spring)
3-3-6 units. HASS-S

Provides training for students to critically analyze the relationship between “health” and “development.” Draws upon the theory and methods of medical anthropology, social medicine, public health, and development to track how culture, history, and political economy influence health and disease in global communities. Students work in teams to formulate research questions, and collect and analyze qualitative data in clinical and community settings in the greater Boston area, in order to design effective development interventions aimed at reducing health disparities in the US and abroad. Students taking graduate version complete additional assignments.

E. C. James

11.144 Project Appraisal in Developing Countries
Prereq: Permission of instructor
U (Spring)
Not offered regularly; consult department
3-0-9 units

Covers techniques of financial analysis of investment expenditures, as well as the economic and distributive appraisal of development projects. Critical analysis of these tools in the political economy of international development is discussed. Topics include appraisal’s role in the project cycle, planning under conditions of uncertainty, constraints in data quality and the limits of rational analysis, and the coordination of an interdisciplinary appraisal team. Enrollment limited; preference to majors.

Y. Hong

11.145 International Housing Economics and Finance
Prereq: 14.01
U (Spring)
3-0-6 units
Credit cannot also be received for 11.355

Presents a theory of comparative differences in international housing outcomes. Introduces institutional differences in the ways housing expenditures are financed, and the economic determinants of housing outcomes, such as construction costs, land values, housing quality, and ownership rates. Analyzes the flow of funds to and from the different national housing finance sectors. Develops an understanding of the greater financial and macroeconomic implications of the mortgage credit sector, and how policies affect the ways housing asset fluctuations impact national economies. Considers the perspective of investors in international real estate markets and the risks and rewards involved. Draws on lessons from an international comparative approach, and applies them to economic and finance policies at the local, state/provincial, and federal levels within a country of choice. Meets with 11.355 when offered concurrently. Students taking graduate version complete additional assignments.

A. Saiz

11.147 Budgeting and Finance for the Public Sector
Subject meets with 11.487
Prereq: Permission of instructor
U (Spring)
Not offered regularly; consult department
3-0-9 units. HASS-S

Examines globally relevant challenges of adequately and effectively attending to public sector responsibilities for basic services with limited resources. Particular attention to the contexts of fiscal crises and rapid population growth, as well as shrinkage, through an introduction to methods and processes of budgeting, accounting, and financial mobilization. Case studies and practice exercises explore revenue strategies, demonstrate fiscal analytical competencies, and familiarize students with pioneering examples of promising budget and accounting processes and innovative funding mobilization via taxation, capital markets, and other mechanisms (e.g., land-value capture). Students taking graduate version explore the subject in greater depth.

G. Carolini
11.148 Environmental Justice: Law and Policy
Subject meets with 11.368
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Fall)
3-0-9 units. HASS-S

Introduces frameworks for analyzing and addressing inequalities in the distribution of environmental benefits and burdens, particularly by race and by class. Explores the foundations and principles of the environmental justice movement from the perspectives of social science, public policy, and law. Introduces basic principles of US constitutional and environmental law, with a focus on equal protection and civil rights. Applies environmental justice principles to contemporary issues in urban policy and planning, including effects of and responses to climate change and global heating. Students taking graduate version complete additional assignments.

J. Steil

11.149 Decarbonizing Urban Mobility
Subject meets with 11.449
Prereq: None
U (Spring)
3-3-6 units

Focuses on measuring and reducing emissions from passenger transportation. After examining travel, energy, and climate conditions, students review existing approaches to transport decarbonization. Evaluates new mobility technologies through their potential to contribute to (or delay) a zero emission mobility system. Students consider the policy tools required to achieve approaches to achieve change. Frames past and future emission reductions using an approach based on the Kaya Identity, decomposing past (and potential future) emissions into their component pieces. Seeks to enable students to be intelligent evaluators of approaches to transportation decarbonization and equip them with the tools to develop and evaluate policy measures relevant to their local professional challenges. Students taking graduate version complete additional assignments.

J. Zhao, A. Salzberg

11.150[J] Metropolis: A Comparative History of New York City
Same subject as 21H.220[J]
Prereq: None
U (Fall)
Not offered regularly; consult department
3-0-9 units. HASS-H

See description under subject 21H.220[J].

C. Wilder

11.151[J] Youth Political Participation
Same subject as STS.080[J]
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-9 units. HASS-H

See description under subject STS.080[J]. Limited to 40.

J. S. Light

11.152[J] The Ghetto: From Venice to Harlem
Same subject as 21H.385[J]
Prereq: None
U (Fall)
Not offered regularly; consult department
3-0-9 units. HASS-S

See description under subject 21H.385[J].

C. Wilder

11.153[J] Shanghai and China's Modernization
Same subject as 21H.351[J]
Prereq: None
U (Fall)
Not offered regularly; consult department
2-0-10 units. HASS-H

See description under subject 21H.351[J].

Staff

11.154 Big Data, Visualization, and Society
Subject meets with 11.454
Prereq: None
U (Spring)
Not offered regularly; consult department
3-0-9 units. HASS-S

Data visualizations communicate the insights found in data to non-technical audiences. Students develop technical skills to work with big data to expose societal issues and communicate the insights. Focuses on different topics each year. After framing that topic, the first half of the subject focuses on learning to analyze the data with Python. The second half of the subject focuses on learning web-based data visualization tools (JavaScript and D3). Students learn data storytelling concepts and produce web-based data visualizations for their final projects. Throughout, students learn ethical data practices. Students taking graduate version complete additional assignments.

S. Williams
11.C35[J] Interactive Data Visualization and Society
Same subject as 6.C35[J]
Subject meets with 6.C85[J], 11.C85[J]
Prereq: None
U (Spring)
3-1-8 units
Credit cannot also be received for 6.8530, 11.154, 11.454
C. D'Ignazio, A. Satyanarayan, S. Williams

11.155[J] Data and Society
Same subject as IDS.057[J], STS.005[J]
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-9 units. HASS-H
See description under subject STS.005[J].
E. Medina, S. Williams

11.156 Healthy Cities: Assessing Health Impacts of Policies and Plans
Subject meets with 11.356
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-9 units
Examines the built, psychosocial, economic, and natural environment factors that affect health behaviors and outcomes, including population-level patterns of disease distribution and health disparities. Introduces tools designed to integrate public health considerations into policy-making and planning. Provides extensive practical, budgeting, and programming training in the application of health impact assessment tools meant to integrate Health in All Policies, including Health Impact Assessment (HIA) methodology, which brings a health lens to policy, budgeting, and planning debates. Emphasizes health equity and healthy cities, and explores the relationship between health equity and broader goals for social and racial justice. Students taking graduate version complete additional assignments. Limited to 30.
M. Arcaya

Same subject as 15.2391[J]
Subject meets with 11.257[J], 15.239[J]
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring; second half of term)
3-0-3 units
Examines different aspects of the growth of China, which has the second largest economy in the world. Studies the main drivers of Chinese economic growth and the forces behind the largest urbanization in human history. Discusses how to understand China’s booming real estate market, and how Chinese firms operate to attain their success, whether through hard-working entrepreneurship or political connections with the government. Explores whether the top-down urban and industrial policy interventions improve efficiency or cause misallocation problems, and whether the Chinese political system is an enabler of Chinese growth or a potential impediment to the country’s future growth prospects. Students taking graduate version complete additional assignments.
Y. Huang, S. Zheng, Z. Tan

11.158 Behavioral Science, AI, and Urban Mobility
Subject meets with 11.478
Prereq: None
U (Fall)
3-0-9 units. HASS-S
Integrates behavioral science, artificial intelligence, and transportation technology to shape travel behavior, design mobility systems and business, and reform transportation policies. Introduces methods to sense travel behavior with new technology and measurements; nudge behavior through perception and preference shaping; design mobility systems and ventures that integrate autonomous vehicles, shared mobility, and public transit; and regulate travel with behavior-sensitive transport policies. Challenges students to pilot behavioral experiments and design creative mobility systems, business and policies. Students taking graduate version complete additional assignments.
J. Zhao
11.159 Entrepreneurial Negotiation  
Subject meets with 11.259  
Prereq: None  
U (Fall; partial term)  
1-3-2 units  
Combines online weekly face-to-face negotiation exercises and in-person lectures designed to empower budding entrepreneurs with negotiation techniques to protect and increase the value of their ideas, deal with ego and build trust in relationships, and navigate entrepreneurial bargaining under constraints of economic uncertainty and complex technical considerations. Students must complete scheduled weekly assignments, including feedback memos to counterpart negotiators, and meet on campus with the instructor to discuss and reflect on their experiences with the course. Students taking graduate version complete additional assignments.  
L. Susskind

11.162 Politics of Energy and the Environment  
Prereq: None  
U (Spring)  
Not offered regularly; consult department  
3-0-9 units. HASS-S  
Focuses on the politics of making local, state, national and international decisions on energy and the environment. Topics include implementing energy efficiency measures, siting nuclear and alternative energy plants, promoting oil and gas development offshore and in wilderness, adapting to climate change, handling toxic waste, protecting endangered species, and conserving water. Case studies include Cape Wind, disputes over oil and gas exploration in the Arctic, the response to Hurricane Katrina, and efforts to craft and comply with the greenhouse gas emissions limits.  
Staff

11.164[J] Human Rights at Home and Abroad  
Same subject as 17.391[J]  
Subject meets with 11.497  
Prereq: Permission of instructor  
U (Fall)  
Not offered regularly; consult department  
2-0-10 units. HASS-S  
Provides a rigorous and critical introduction to the history, foundation, structure, and operation of the human rights movement. Focuses on key ideas, actors, methods and sources, and critically evaluates the field. Addresses current debates in human rights, including the relationship with security, democracy, development and globalization, urbanization, equality (in housing and other economic and social rights; women’s rights; ethnic, religious and racial discrimination; and policing/conflict), post-conflict rebuilding and transitional justice, and technology in human rights activism. No prior coursework needed, but work experience, or community service that demonstrates familiarity with global affairs or engagement with ethics and social justice issues, preferred. Students taking graduate version are expected to write a research paper.  
B. Rajagopal

11.165 Urban Energy Systems and Policy  
Subject meets with 1.286[J], 11.477[J]  
Prereq: 14.01 or permission of instructor  
U (Fall)  
3-0-9 units. HASS-S  
Examines efforts in developing and advanced nations and regions. Examines key issues in the current and future development of urban energy systems, such as technology, use, behavior, regulation, climate change, and lack of access or energy poverty. Case studies on a diverse sampling of cities explore how prospective technologies and policies can be implemented. Includes intensive group research projects, discussion, and debate. Students taking the graduate version complete additional assignments.  
D. Hsu
11.166 Law, Social Movements, and Public Policy: Comparative and International Experience
Subject meets with 11.496
Prereq: Permission of instructor
U (Spring)
Not offered regularly; consult department
3-0-9 units. HASS-S

Studies the interaction between law, courts, and social movements in shaping domestic and global public policy. Examines how groups mobilize to use law to affect change and why they succeed and fail. Case studies explore the interplay between law, social movements, and public policy in current issues, such as gender, race, labor, trade, climate change/environment, and LGBTQ rights. Introduces theories of public policy, social movements, law and society, and transnational studies. Students taking graduate version complete additional assignments. Limited to 15.
B. Rajagopal

Same subject as 14.47[J], 15.2191[J], 17.399[J]
Prereq: None
U (Spring)
Not offered regularly; consult department
3-0-9 units. HASS-S
Credit cannot also be received for 11.267[J], 15.219[J]

Staff

11.169 Global Climate Policy and Sustainability
Subject meets with 11.269
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-9 units. HASS-S

Examines climate politics both nationally and globally. Addresses economic growth, environmental preservation, and social equity through the lens of sustainability. Uses various country and regional cases to analyze how sociopolitical, economic and environmental values shape climate policy. Students develop recommendations for making climate policy more effective and sustainable. Students taking the graduate version complete additional assignments. Limited to 25.
J. Knox-Hayes

11.170 Cities and Climate Change: Mitigation and Adaptation
Subject meets with 11.270
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-9 units. HASS-S
Can be repeated for credit.

Examines climate adaptation and mitigation responses at the city level. Discusses factors of greatest concern in adapting cities to climate change, including infrastructure; energy, food, and water systems; health; housing; and environmental justice. Various city and regional cases are used to analyze how cities are mobilizing to face climate change and integrate core considerations into urban planning. Working on independent case studies, students analyze how cities make urban planning decisions with respect to climate adaptation. In the process, students practice analytical skills to better understand how urban policies are made, and how they can be improved. Students develop recommendations for making climate adaptation more effective and sustainable at the city level. Assignment requirements differ for students completing the graduate version. Limited to 25.
J. Knox-Hayes

11.171 Indigenous Environmental Planning
Subject meets with 11.271
Prereq: None
U (Spring)
3-0-9 units

Examines how Indigenous peoples’ relationships to their homelands and local environments has been adversely affected by Western planning. Explores how these relationships have changed over time as American Indians, Alaska Natives, and other groups indigenous to North America and Hawai’i have adapted to new conditions, including exclusion from markets of exchange, overhunting/overfishing, dispossession, petrochemical development, conservation, mainstream environmentalism, and climate change. Seeks to understand current environmental challenges and their roots and discover potential solutions to address these challenges. Students taking graduate version complete additional assignments.
J. Knox-Hayes, L. Susskind

11.173[J] Infrastructure Design for Climate Change
Same subject as 1.103[J]
Subject meets with 1.303[J], 11.273[J]
Prereq: Permission of instructor
U (Fall)
0-2-4 units

See description under subject 1.103[J]. Enrollment limited; preference to juniors and seniors.
H. Einstein
Laboratories

11.188 Introduction to Spatial Analysis and GIS Laboratory
Prereq: None
U (Fall, Spring)
3-3-6 units. Institute LAB
Credit cannot also be received for 11.205

An introduction to Geographic Information Systems (GIS), a tool for visualizing and analyzing spatial data. Explores how GIS can make maps, guide decisions, answer questions, and advocate for change. Class builds toward a project in which students critically apply GIS techniques to an area of interest. Students build data discovery, cartography, and spatial analysis skills while learning to reflect on their positionality within the research design process. Because maps and data are never neutral, the class incorporates discussions of power, ethics, and data throughout as part of a reflective practice. Instruction and practice in oral and written communication provided.
S. Williams, C. D’Ignazio, E. Huntley

Tutorials, Fieldwork, and Internships

11.UAR[J] Climate and Sustainability Undergraduate Advanced Research (New)
Same subject as 1.UAR[J], 3.UAR[J], 5.UAR[J], 12.UAR[J], 15.UAR[J], 22.UAR[J]
Prereq: Permission of instructor
U (Fall, Spring)
2-0-4 units
Can be repeated for credit.

See description under subject 1.UAR[J]. Application required; consult MCSC website for more information.
D. Plata, E. Olivetti

11.UR Undergraduate Research
Prereq: None
U (Fall, IAP, Spring, Summer)
Units arranged
Can be repeated for credit.

Undergraduate research opportunities in Urban Studies and Planning. For further information, consult the Departmental Coordinators.
Staff

11.URG Undergraduate Research
Prereq: None
U (Fall, IAP, Spring, Summer)
Units arranged
Can be repeated for credit.

Undergraduate research opportunities in Urban Studies and Planning. For further information, consult the Departmental Coordinators.

Same subject as 4.THT[J]
Prereq: None
U (Fall)
3-0-9 units
Can be repeated for credit.

Designed for students writing a thesis in Urban Studies and Planning or Architecture. Develop research topics, review relevant research and scholarship, frame research questions and arguments, choose an appropriate methodology for analysis, and draft introductory and methodology sections.
C. Abbanat

11.THU Undergraduate Thesis
Prereq: 11.THT[J]
U (Fall, IAP, Spring, Summer)
Units arranged
Can be repeated for credit.

Program of research leading to the writing of an SB thesis. To be arranged by the student under approved supervision.
Staff

11.189-11.190 Urban Fieldwork
Prereq: None
U (Fall, Spring)
Units arranged [P/D/F]
Can be repeated for credit.

Practical application of city and regional planning techniques to towns, cities, and regions, including problems of replanning, redevelopment, and renewal of existing communities. Includes internships, under staff supervision, in municipal and state agencies and departments.
Staff
11.191-11.192 Independent Study
Prereq: None
U (Fall, IAP, Spring)
Units arranged [P/D/F]
Can be repeated for credit.

For undergraduates wishing to pursue further study in specialized areas of urban studies or city and regional planning not covered in regular subjects.

Staff

11.193-11.194 Supervised Readings
Prereq: None
U (Fall, Spring)
Units arranged [P/D/F]
Can be repeated for credit.

Reading and discussion of topics in urban studies and planning.

Staff

11.503 Special Subject: Transportation Shaping Sustainable Urbanization: Connections with Behavior, Urban Economics and Planning
Prereq: None
U (Fall; partial term)
2-0-1 units

Explores changes in the built environment expected from transportation investments, and how they can be used to promote sustainable and equitable cities. Reflects on how notable characteristics of cities can be explained by their historical and current transportation features. Introduces theoretical basis and empirical evidence to analyze the urban transformation autonomous vehicles will bring and how shared mobility services affect travel behavior, and its implications from an urban planning perspective. Lectures interspersed with guest speakers and an optional field trip. Subject can count toward the 6-unit discovery-focused credit limit for first-year students. Licensed for Fall 2023 by the Committee on Curricula. Limited to 18.

F. Duarte, A. Borges Costa

11.504 Special Subject: Topics in Affordable Housing
Prereq: None
U (Spring)
1-0-2 units

Weekly seminar-style discussions on topics in affordable housing, including federal funding programs, homelessness prevention and shelters, local land use and zoning for affordability, innovative housing models/designs, fair housing laws, the history of public housing in the US, and international comparisons. Subject can count toward the 6-unit discovery-focused credit limit for first year students.

Ezra Haber Glenn

11.S187 Special Subject: Urban Studies and Planning
Prereq: None
U (Fall; second half of term)
Units arranged [P/D/F]
Can be repeated for credit.

For undergraduates wishing to pursue further study or fieldwork in specialized areas of urban studies or city and regional planning not covered in regular subjects of instruction.

Staff

11.S188 Special Subject: Urban Studies and Planning
Prereq: None
U (Fall, IAP)
Units arranged [P/D/F]
Can be repeated for credit.

For undergraduates wishing to pursue further study or fieldwork in specialized areas of urban studies or city and regional planning not covered in regular subjects of instruction.

Staff

11.S189 Special Subject: Urban Studies and Planning
Prereq: None
U (Fall, Spring)
Units arranged [P/D/F]
Can be repeated for credit.

For undergraduates wishing to pursue further study or fieldwork in specialized areas of urban studies or city and regional planning not covered in regular subjects of instruction.

Staff
11.S195 Special Subject: Urban Studies and Planning
Prereq: None
U (Fall, Spring)
Units arranged
Can be repeated for credit.

For undergraduates wishing to pursue further study or fieldwork in specialized areas of urban studies or city and regional planning not covered in regular subjects of instruction.

Staff

Prereq: None
U (Fall, Spring)
Units arranged
Can be repeated for credit.

For undergraduates wishing to pursue further study or fieldwork in specialized areas of urban studies or city and regional planning not covered in regular subjects of instruction. 11.S198 is graded P/D/F.

Master's Core Subjects

11.200 Gateway: Urban Studies and Planning 1
Prereq: None
G (Fall)
4-1-7 units

Introduces the theory and practice of planning and urban studies through exploration of the history of the field, case studies, and criticisms of traditional practice.

Faculty

11.201 Gateway: Urban Studies and Planning 2
Prereq: 11.200
G (Spring)
Not offered regularly; consult department
4-1-7 units

Builds on 11.200 by exploring in more detail contemporary planning tools and techniques, as well as case studies of planning and urban studies practice.

Faculty

11.202 Planning Economics
Prereq: 11.203
G (Fall; second half of term)
3-0-3 units

Students use economic theory tools acquired in 11.203 to understand the mutual processes of individual action and structural constraint and investigate crises in search of opportunities for mitigation and reparation. Investigates a variety of structural crises from throughout the realms of planning, such as: capitalism, climate change, and (in)action; white supremacy, segregation, and gentrification; colonialism, informality, and infrastructure; autocentricity and other legacies of the built environment.

D. Bunten

11.203 Microeconomics
Prereq: None
G (Fall; first half of term)
3-0-3 units

Students develop a suite of tools from economic theory to understand the mutual processes of individual action and structural constraint. Students apply these tools to human interaction and social decision-making. Builds an understanding of producer theory from the collaborative possibilities and physical constraints that unfold as production is scaled up. Presents consumer theory as the process of individuals doing the best for themselves, their families, and their communities -- subject to the sociostructural constraints under which they operate. Considers alternative frameworks of social welfare, with a specific focus on marginalization and crisis, as well as common policy interventions and their implications under different constructions of welfare.

D. Bunten
**11.204[J] People and the Planet: Environmental Histories and Engineering**  
Same subject as IDS.524[J]  
Subject meets with 11.004[J], STS.033[J]  
Prereq: None  
G (Spring)  
Not offered regularly; consult department  
3-3-6 units  
Explore historical and cultural aspects of complex environmental problems and engineering approaches to sustainable solutions. Introduces quantitative analyses and methodological tools to understand environmental issues that have human and natural components. Demonstrates concepts through a series of historical and cultural analyses of environmental challenges and their engineering responses. Builds writing, quantitative modeling, and analytical skills in assessing environmental systems problems and developing engineering solutions. Through environmental data gathering and analysis, students engage with the challenges and possibilities of engineering in complex, interacting systems, and investigate plausible, symbiotic, systems-oriented solutions. Students taking graduate version complete additional analysis of reading assignments and a more in-depth and longer final paper.  
A. Slocum, R. Scheffler, J. Trancik

**11.205 Introduction to Spatial Analysis and GIS**  
Prereq: None  
G (Fall, Spring; first half of term)  
2-2-2 units  
Credit cannot also be received for 11.188  
An introduction to Geographic Information Systems (GIS): a tool for visualizing and analyzing data representing locations and their attributes. GIS is invaluable for planners, scholars, and professionals who shape cities and a political instrument with which activists advocate for change. Class includes exercises to make maps, query databases, and analyze spatial data. Because maps and data are never neutral, the class incorporates discussions of power, ethics, and data throughout as part of a reflective practice. Limited enrollment; preference to first-year MCP students.  
S. Williams, C. D’Ignazio, E. Huntley

**11.206 Poverty and Economic Security**  
Subject meets with 11.006  
Prereq: None  
Acad Year 2023-2024: G (Fall)  
Acad Year 2024-2025: Not offered  
3-0-9 units  
Explores the evolution of poverty and economic security in the US within a global context. Examines the impacts of recent economic restructuring and globalization. Reviews current debates about the fate of the middle class, sources of increasing inequality, and approaches to advancing economic opportunity and security. Students taking graduate version complete additional assignments.  
A. Glasmeier

**11.220 Quantitative Reasoning and Statistical Methods for Planning I**  
Prereq: Permission of instructor  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: G (Spring)  
4-2-6 units  
Develops logical, empirically based arguments using statistical techniques and analytic methods. Covers elementary statistics, probability, and other types of quantitative reasoning useful for description, estimation, comparison, and explanation. Emphasizes the use and limitations of analytical techniques in planning practice. Restricted to MCP students.  
J. Steil

**Department-wide Subjects**

**11.222 Introduction to Critical Qualitative Methods**  
Prereq: None  
G (Spring)  
3-0-3 units  
Introduces qualitative methods as an approach to critical inquiry in urban planning research and practice. Emphasizes the importance of historical context, place-specificity, and the experiences and views of individuals as ways of knowing relationships of power and privilege between people, in place, and over time. Explores a range of critical qualitative methods including those used in archival, interview, observational, visual, and case study analysis.  
K. Crockett
11.228[J] Collectives: New Forms of Sharing
Same subject as 4.229[J]
Prereq: Permission of instructor
G (Spring)
3-0-9 units
See description under subject 4.229[J]. Limited to 15.
Consult R. Segal

11.233 Research Design for Policy Analysis and Planning
Prereq: Permission of instructor
G (Fall)
3-0-9 units
Develops skills in research design for policy analysis and planning. Emphasizes the logic of the research process and its constituent elements. Topics include philosophy of science, question formulation, hypothesis generation and theory construction, data collection techniques (e.g. experimental, survey, interview), ethical issues in research, and research proposal preparation. Limited to doctoral students in Course 11.
A. Glasmeier

11.234 Making Sense: Qualitative Methods for Designers and Planners
Prereq: None
G (Spring)
3-3-6 units
Surveys uses of qualitative methods and social theory in urban design and planning research and practice. Topics include observing environments, physical traces, and environmental behavior; asking questions; focused interviews; standardized questionnaires; use of written archival materials; use of visual materials, including photographs, new media, and maps; case studies; and comparative methods. Emphasizes use of each of these skills to collect and make sense of qualitative data in community and institutional settings.
E. C. James

11.236 Participatory Action Research (PAR)
Prereq: None
G (Fall)
3-0-9 units
Introduces students to participatory action research (PAR), an approach to research and inquiry that enables communities to examine and address consequential societal problems. Explores theoretical and practical questions at the heart of partnerships between applied social scientists and community partners. Focus includes the history of PAR and action research; debates regarding PAR as a form of applied social science; and practical, political, and ethical questions in the practice of PAR. Guides students through an iterative process for developing their own personal theories of practice. Covers co-designing and co-conducting research with community partners at various stages of the research process. Examines actual cases in which PAR-like methods have been used with greater or lesser success; and interaction with community members, organizations, and individuals who have been involved in PAR collaborations.
M. Arcaya

11.238[J] Ethics of Intervention
Same subject as 21A.409[J]
Prereq: Permission of instructor
Acad Year 2023-2024: G (Fall)
Acad Year 2024-2025: Not offered
3-0-9 units
An historical and cross-cultural study of the logics and practices of intervention: the ways that individuals, institutions, and governments identify conditions of need or states of emergency within and across borders that require a response. Examines when a response is viewed as obligatory, when is it deemed unnecessary, and by whom; when the intercession is considered fulfilled; and the rationales or assumptions that are employed in assessing interventions. Theories of the state, globalization, and humanitarianism; power, policy, and institutions; gender, race, and ethnicity; and law, ethics, and morality are examined.
E. C. James
**11.239 The City in Film**  
Subject meets with 11.139  
Prereq: Permission of instructor  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: G (Spring)  
2-2-5 units  

Surveys important developments in urbanism from 1900 to the present, using film as a lens to explore and interpret aspects of the urban experience in the US and abroad. Topics include industrialization, demographics, diversity, the environment, and the relationship between the community and the individual. Films vary from year to year but always include a balance of classics from the history of film, an occasional experimental/avant-garde film, and a number of more recent, mainstream movies. Students taking undergraduate version complete writing assignments that focus on observation, analysis, and the essay, and give an oral presentation.  
*E. Glenn*

**11.243 Research Methods in Global Health and Development**  
Subject meets with 11.143  
Prereq: None  
G (Spring)  
3-3-6 units  

Provides training for students to critically analyze the relationship between “health” and “development.” Draws upon the theory and methods of medical anthropology, social medicine, public health, and development to track how culture, history, and political economy influence health and disease in global communities. Students work in teams to formulate research questions, and collect and analyze qualitative data in clinical and community settings in the greater Boston area, in order to design effective development interventions aimed at reducing health disparities in the US and abroad. Students taking graduate version complete additional assignments.  
*E. C. James*

**11.244[J] Race, History, and the Built Environment**  
Same subject as STS.424[J]  
Prereq: None  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: G (Spring)  
3-0-9 units  

Examines how the development of the built environment produces and reproduces conceptions of race - sociobiological theories of human difference. Using historical and cross-cultural cases, tracks the social and political lives of material objects, infrastructures, technologies, and architectures using projects of settler colonialism, nation-building, community development and planning, and in post-conflict and post-disaster settings. Analyzes social theories of race, place, space, and materiality; power, identity, and embodiment; and memory, death, and haunting. Explores how conceptions of belonging, citizenship, and exclusion are represented and designed spatially through analysis of examples, such as the appropriation of land for infrastructure programs, the erasure and commemoration of heritage in public spaces, and the use of the built environment to impose colonial ideologies. Limited to 14 students.  
*Erica James*

**11.245[J] DesignX Entrepreneurship**  
Same subject as 4.245[J]  
Prereq: Permission of instructor  
G (IAP)  
4-0-2 units  

Students in teams accepted to the MITdesignX accelerator begin work on their ventures in this intense two-week bootcamp. Participants identify the needs and problems that demonstrate the demand for their innovative technology, policy, products, and/or services. They research and investigate various markets and stakeholders pertinent to their ventures, and begin to test their ideas and thesis in real-world interviews and interactions. Subject presented in workshop format, giving teams the chance to jump-start their ventures together with a cohort of people working on ideas that span the realm of design, planning real estate, and the human environment. Registration limited to students accepted to the MITdesignX accelerator in the fall.  
*S. Gronfeldt, D. Frenchman, G. Rosenzweig*
11.246[J] DesignX Accelerator
Same subject as 4.246[J]
Prereq: Permission of instructor
G (Spring)
2-4-6 units

Students continue to work in their venture teams to advance innovative ideas, products, and services oriented to design, planning, and the human environment. Presented in a workshop format with supplementary lectures. Teams are matched with external mentors for additional support in business and product development. At the end of the term, teams pitch their ventures to an audience from across the school and MIT, investors, industry, and cities. Registration limited to students accepted to the MITdesignX accelerator in the fall.
S. Gronfeldt, D. Frenchman, G. Rosenzweig

11.250 Transportation Research Design
Prereq: Permission of instructor
G (Fall, Spring)
2-0-1 units
Can be repeated for credit.

Seminar dissects ten transportation studies from head to toe to illustrate how research ideas are initiated, framed, analyzed, evidenced, written, presented, criticized, revised, extended, and published, quoted and applied. Students learn by mimicking and learn by doing, and design and execute their own transportation research. Limited to 20.
J. Zhao

11.251 Frontier of Transportation Research
Prereq: None
G (Fall, Spring)
1-0-2 units
Can be repeated for credit.

Surveys the frontier of transportation research offered by 12 MIT faculty presenting their latest findings, ideas, and innovations. Students write weekly memos to reflect on these talks, make connections to their own research, and give short presentations.
Jinhua Zhao

11.255 Negotiation and Dispute Resolution in the Public Sector
Prereq: None
G (Spring)
4-0-8 units

Investigates social conflict and distributional disputes in the public sector. While theoretical aspects of conflict and consensus building are considered, focus is on the practice of negotiation and dispute resolution. Comparisons between unassisted and assisted negotiation are reviewed along with the techniques of facilitation and mediation.
L. Susskind

11.256[J] Encounters and Ruptures: Writing About the Modern City
Same subject as 4.256[J]
Prereq: Permission of instructor
G (Fall)
Not offered regularly; consult department
2-0-7 units

Through extensive reading and writing, students explore the promise and perils of the variegated city, focusing on topics that demand urgent attention: migration, climate change, inequality, racial injustice, and public space. Class strives to create artful narratives by examining how various forms — essay, memoir, longform journalism, poetry, fiction, film, and photography — illuminate our understanding of cities. Special emphasis on the writer as the reader’s advocate and on the indispensability of the writer-editor relationship, with the goal of writing with greater creativity and sophistication for specialized and general interest audiences. Limited to 12 students.
G. Cadogan

11.252[J] Design and Development of Games for Learning
Same subject as CMS.863[J]
Subject meets with 11.127[J], CMS.590[J]
Prereq: None
G (Spring)
3-6-3 units

See description under subject CMS.863[J].
E. Klopfer

Same subject as 15.239[J]
Subject meets with 11.157[J], 15.2391[J]
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring; second half of term)
3-0-3 units

Examines different aspects of the growth of China, which has the second largest economy in the world. Studies the main drivers of Chinese economic growth and the forces behind the largest urbanization in human history. Discusses how to understand China’s booming real estate market, and how Chinese firms operate to attain their success, whether through hard-working entrepreneurship or political connections with the government. Explores whether the top-down urban and industrial policy interventions improve efficiency or cause misallocation problems, and whether the Chinese political system is an enabler of Chinese growth or a potential impediment to the country’s future growth prospects. Students taking graduate version complete additional assignments.

Y. Huang, S. Zheng, Z. Tan

**11.258 Sustainable Urbanization Research Seminar (New)**

Prereq: None
G (Fall)
2-0-1 units
Can be repeated for credit.

Reviews the seminal as well as latest research on the driving forces of urbanization, real estate markets, urban sustainability in both developed and developing economies. Examines the tensions as well as synergies between urbanization and sustainability, and designs and evaluates policies and business strategies that can enhance the synergies while reduce the tensions. Covers various research topics under the umbrella of urbanization under three modules (sustainable urbanization; sustainable real estate; urbanization in emerging economies) where students study the initiation of an idea to its publication, including but not limited to, analyzing, framing, writing and critiquing as parts of the process. Sessions are organized as a semi-structured dialogue.

Siqi Zheng

**11.259 Entrepreneurial Negotiation**

Subject meets with 11.159
Prereq: None
G (Fall; partial term)
1-3-2 units

Combines online weekly face-to-face negotiation exercises and in-person lectures designed to empower budding entrepreneurs with negotiation techniques to protect and increase the value of their ideas, deal with ego and build trust in relationships, and navigate entrepreneurial bargaining under constraints of economic uncertainty and complex technical considerations. Students must complete scheduled weekly assignments, including feedback memos to counterpart negotiators, and meet on campus with the instructor to discuss and reflect on their experiences with the course. Students taking graduate version complete additional assignments.

L. Susskind

**11.260 Sustainable Development and Institutions**

Prereq: None
G (Fall)
Not offered regularly; consult department
3-0-9 units

Explores the theory and application of the principles of sustainable development as they relate to organizational change management, decision-making processes, goal setting methodology and solution development. Leverages the MIT campus as a living laboratory to gain unique insight into the change management and solution development process. Limited to 18.

J. Newman

**11.263[J] Urban Last-Mile Logistics**

Same subject as 1.263[J], SCM.293[J]
Prereq: SCM.254 or permission of instructor
G (Spring; second half of term)
2-0-4 units

See description under subject SCM.293[J].

M. Winkenbach


Same subject as 15.219[J]
Prereq: None
G (Spring)
Not offered regularly; consult department
3-0-9 units
Credit cannot also be received for 11.167[J], 14.47[J], 15.2191[J], 17.399[J]

See description under subject 15.219[J].

Staff
11.268 Laws of the Land: Land Use and Environmental Law and Policy (New)
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Fall)
3-0-3 units

Environmental justice and climate change are pressing contemporary concerns. Crucial dimensions of the exposure of households to environmental harms and benefits are determined by land use and environmental laws. Land use and environmental laws are also central to reducing carbon emissions and building environmentally sustainable and resilient communities. Introduces students to the legal and social science dimension of these two crucial areas of law that is well-covered in the current curriculum. Enrollment limited to 30.

J. Steil

11.269 Global Climate Policy and Sustainability
Subject meets with 11.169
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units

Examines climate politics both nationally and globally. Addresses economic growth, environmental preservation, and social equity through the lens of sustainability. Uses various country and regional cases to analyze how sociopolitical, economic and environmental values shape climate policy. Students develop recommendations for making climate policy more effective and sustainable. Students taking graduate version complete additional assignments. Limited to 25.

J. Knox-Hayes

11.270 Cities and Climate Change: Mitigation and Adaptation
Subject meets with 11.170
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units

Can be repeated for credit.

Examines climate adaptation and mitigation responses at the city level. Discusses factors of greatest concern in adapting cities to climate change, including infrastructure; energy, food, and water systems; health; housing; and environmental justice. Various city and regional cases are used to analyze how cities are mobilizing to face climate change and integrate core considerations into urban planning. Working on independent case studies, students analyze how cities make urban planning decisions with respect to climate adaptation. In the process, students practice analytical skills to better understand how urban policies are made, and how they can be improved. Students develop recommendations for making climate adaptation more effective and sustainable at the city level. Assignment requirements differ for students completing the graduate version. Limited to 25.

J. Knox-Hayes

11.271 Indigenous Environmental Planning
Subject meets with 11.171
Prereq: None
G (Spring)
3-0-9 units

Examines how Indigenous peoples’ relationships to their homelands and local environments has been adversely affected by Western planning. Explores how these relationships have changed over time as American Indians, Alaska Natives, and other groups indigenous to North America and Hawai‘i have adapted to new conditions, including exclusion from markets of exchange, overhunting/overfishing, dispossession, petrochemical development, conservation, mainstream environmentalism, and climate change. Seeks to understand current environmental challenges and their roots and discover potential solutions to address these challenges. Students taking graduate version complete additional assignments. Limited to 25.

J. Knox-Hayes, L. Susskind

11.273[J] Infrastructure Design for Climate Change
Same subject as 1.303[J]
Subject meets with 1.103[J], 11.173[J]
Prereq: Permission of instructor
G (Fall)
0-2-4 units

See description under subject 1.303[J].

H. Einstein
**11.274 Cybersecurity Clinic**  
Subject meets with 11.074  
Prereq: None  
G (Fall, Spring)  
2-4-6 units  

Provides an opportunity for MIT students to become certified in methods of assessing the vulnerability of public agencies (particularly agencies that manage critical urban infrastructure) to the risk of cyberattack. Certification involves completing an 8-hour, self-paced, online set of four modules during the first four weeks of the semester followed by a competency exam. Students who successfully complete the exam become certified. The certified students work in teams with client agencies in various cities around the United States. Through preparatory interactions with the agencies, and short on-site visits, teams prepare vulnerability assessments that client agencies can use to secure the technical assistance and financial support they need to manage the risks of cyberattack they are facing. Students taking graduate version complete additional assignments. Limited to 15.  

*L. Susskind*

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**Program Group Subjects**

**11.301[J] Introduction to Urban Design and Development**  
Same subject as 4.252[J]  
Prereq: Permission of instructor  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: G (Spring)  
3-0-9 units  

Examines the physical and social structure of cities and ways they can be changed. Includes significant thinkers in urban form, 20th-century American city design, urban design and society, global urban design, and design of neighborhoods and streets. Core lectures are supplemented by student papers examining the relationship of contemporary projects to history and theory, and factors of high quality global urban design and development. Guest speakers present cases involving current projects or research illustrating scope and methods of urban design theory and practice. Intended for those seeking an introduction to fundamental knowledge of theory and praxis in city design and development.  

*B. Ryan*

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**11.302[J] Urban Design Politics**  
Same subject as 4.253[J]  
Prereq: Permission of instructor  
G (Spring)  
3-0-9 units  

Examines ways that urban design contributes to distribution of political power and resources in cities. Investigates the nature of relations between built form and political purposes through close study of public and private sector design commissions and planning processes that have been clearly motivated by political pressures, as well as more tacit examples. Lectures and discussions focus on cases from both developed and developing countries.  

*L. Vale*

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**11.303[J] Real Estate Development Studio**  
Same subject as 4.254[J]  
Prereq: Permission of instructor  
G (Spring)  
6-0-12 units  

Focuses on the synthesis of urban, mixed-use real estate projects, including the integration of physical design and programming with finance and marketing. Interdisciplinary student teams analyze how to maximize value across multiple dimensions in the process of preparing professional development proposals for sites in US cities and internationally. Reviews emerging real estate products and innovative developments to provide a foundation for studio work. Two major projects are interspersed with lectures and field trips. Integrates skills and knowledge in the MSRED program; also open to other students interested in real estate development by permission of the instructors.  

*K. Shen*

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**11.304[J] Site and Environmental Systems Planning**  
Same subject as 4.255[J]  
Prereq: Permission of instructor  
G (Spring)  
6-0-9 units  

Introduces a range of practical approaches involved in evaluating and planning sites within the context of natural and cultural systems. Develops the knowledge and skills to analyze and plan a site for development through exercises and an urban design project. Topics include land inventory, urban form, spatial organization of uses, parcelization, design of roadways, grading, utility systems, off-site impacts, and landscape strategies.  

*E. Ben-Joseph, M. A. Ocampo*
11.305 Doing Good by Doing Well: Planning and Development
Case Studies that Promote both the Public Good and Real Estate Value
Prereq: None
G (Fall)
2-0-1 units
Seminar studies how the messy and complex forces of politics, planning and the real estate market have collectively shaped Boston’s urban fabric and skyline in the last two decades. Using some of the city’s most important real estate development proposals as case studies, students dissect and analyze Boston’s negotiated development review and permitting process to understand what it takes beyond a great development concept and a sound financial pro forma to earn community and political support. Throughout the term, students identify strategies for success and pitfalls for failure within this intricate approval process, as well as how these lessons can be generalized and applied to other cities and real estate markets.
K. Shen

11.307[J] China Urban Design Studio
Same subject as 4.173[J]
Prereq: Permission of instructor
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
0-21-0 units
Design studio that includes architects, urban designers, and city planners working in teams on a contemporary development project of importance in China, particularly in transitional, deindustrializing cities. Students analyze conditions, explore alternatives, and synthesize architecture, city design, and implementation plans. Lectures and brief study tours expose students to history and contemporary issues of urbanism in China. Offered every other spring at MIT in parallel with urban design studio at Tsinghua University, Beijing, involving students and faculty from both schools. Field visit to China will occur in January prior to studio. Limited to 10.
B. Ryan

11.308[J] Ecological Urbanism Seminar
Same subject as 4.213[J]
Prereq: Permission of instructor
G (Spring)
3-0-9 units
Weds the theory and practice of city design and planning as a means of adaptation with the insights of ecology and other environmental disciplines. Presents ecological urbanism as critical to the future of the city and its design, as it provides a framework for addressing challenges that threaten humanity — such as climate change, rising sea level, and environmental and social justice — while fulfilling human needs for health, safety, welfare, meaning, and delight. Applies a historical and theoretical perspective to the solution of real-world challenges. Enrollment limited.
A. Spirn

11.309[J] Sensing Place: Photography as Inquiry
Same subject as 4.215[J]
Prereq: None
G (Spring)
3-0-9 units
Explores photography as a disciplined way of seeing, and as a medium of inquiry and of expressing ideas. Readings, observations, and photographs form the basis of discussions on landscape, light, significant detail, place, poetics, narrative, and how photography can inform research, design and planning, among other issues. Recommended for students who want to employ visual methods in their theses. Enrollment limited.
A. Spirn

11.312 Engaging Community: Models and Methods for Strengthening Democracy
Prereq: None
G (Spring)
3-0-9 units
Examines the demographic complexity of cities and their fundamental design challenges for planners and other professions responsible for engaging the public. Working with clients, participants learn design principles for creating public engagement practices necessary for building inclusive civic infrastructure in cities. Participants also have the opportunity to review and practice strategies, techniques, and methods for engaging communities in demographically complex settings.
C. McDowell
11.313 Advanced Research Workshop in Landscape and Urbanism
Prereq: Permission of instructor
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Fall)
3-0-9 units

In-depth research workshop on pressing socio-economic and environmental design issue of our time, includes discussion and practices with real-world stakeholders experimenting with new development typologies and technologies. The goal is to generate well-grounded, design-based solutions and landscape infrastructural responses to the physical design problem being addressed. Specific focus and practicum status is adjusted on a year-to-year basis.
A. Berger

11.315[J] Disaster Resilient Design
Same subject as 4.217[J]
Subject meets with 4.218
Prereq: None
G (Fall)
Not offered regularly; consult department
3-0-6 units

Consult M. Mazereeuw

11.318 Senseable Cities
Prereq: Permission of instructor
G (Spring)
Not offered regularly; consult department
3-0-9 units

Studies how ubiquitous and real-time information technology can help us to understand and improve cities and regions. Explores the impact of integrating real-time information technology into the built environment. Introduces theoretical foundations of ubiquitous computing. Provides technical tools for tactile development of small-scale projects. Limited to 24.
C. Ratti

11.320 Digital City Design Workshop
Prereq: Permission of instructor
G (Spring)
3-0-9 units

Students develop proposals, at the city and neighborhood scales, that integrate urban design, planning, and digital technology. Aims to create more efficient, responsive, and livable urban places and systems that combine physical form with digital media, sensing, communications, and data analysis. Students conduct field research, build project briefs, and deliver designs or prototypes, while supported by lectures, case studies, and involvement from experts and representatives of subject cities. Limited to 12.
C. Ratti

11.321 Data Science and Real Estate
Prereq: None
G (Spring)
4-0-8 units

Introduces the principles of data science and how data science is impacting cities and real estate, with a combination of fundamental lectures, guest speakers, and use cases. Explores how data science has been adopted by the real estate industry — from developers to city planners. Presents practical skills in data science and provides the opportunity for students to produce their own work and practice basic coding skills applied to real estate.
F. Duarte

11.323 International Real Estate Transactions
Prereq: None
G (Spring; second half of term)
3-0-3 units

Focuses on analyzing a variety of unique international real estate investment and development transactions. Blends real estate investing and development decision-making with discussion-based learning from a multidisciplinary standpoint. Seeks to facilitate a richer understanding of domestic (US) real estate transaction concepts by contextualizing them in the general analytical framework underpinning international real estate investment decision-making.
M. Srivastava
11.324 Modeling Pedestrian Activity in Cities
Subject meets with 11.024
Prereq: None
G (Spring)
3-0-9 units
Investigates the interaction between pedestrian activity, urban form, and land-use patterns in relatively dense urban environments. Informed by recent literature on pedestrian mobility, behavior, and biases, subject takes a practical approach, using software tools and analysis methods to operationalize and model pedestrian activity. Uses simplified yet powerful and scalable network analysis methods that focus uniquely on pedestrians, rather than engaging in comprehensive travel demand modeling across all modes. Emphasizes not only modeling or predicting pedestrian activity in given built settings, but also analyzing and understanding how changes in the built environment — land use changes, density changes, and connectivity changes — can affect pedestrian activity. Students taking graduate version complete additional assignments.
A. Sevtsuk

11.325 Technological Change & Innovation for Real Estate and Cities
Prereq: None
G (Fall; second half of term)
2-0-4 units
Seeks to examine the technological change and innovation that is disrupting the foundation of how we create the built environment. Through a series of educational workshops, students scout, catalog, and track technologies by looking at new real estate uses, products, processes, and organizational strategies at MIT labs and around the globe. Participants contribute to an interactive web tool, “The Tech Tracker,” which provides technology intelligence to students and real estate professionals to enhance their understanding of technological progress.
F. Duarte, J. Scott

11.328[J] Urban Design Skills: Observing, Interpreting, and Representing the City
Same subject as 4.240[J]
Prereq: None
G (Fall; first half of term)
4-2-2 units
Introduces methods for observing, interpreting, and representing the urban environment. Students draw on their senses and develop their ability to deduce, question, and test conclusions about how the built environment is designed, used, and valued. The interrelationship of built form, circulation networks, open space, and natural systems are a key focus. Supplements existing classes that cover theory and history of city design and urban planning and prepares students without design backgrounds with the fundamentals of physical planning. Intended as a foundation for 11.329[J].
E. Ben-Joseph, M. Ocampo

11.329[J] Advanced Urban Design Skills: Observing, Interpreting, and Representing the City
Same subject as 4.248[J]
Prereq: 11.328[J] or permission of instructor
G (Fall; second half of term)
4-2-4 units
Through a studio-based course in planning and urban design, builds on the foundation acquired in 11.328[J] to engage in creative exploration of how design contributes to resilient, just, and vibrant urban places. Through the planning and design of two projects, students creatively explore spatial ideas and utilize various digital techniques to communicate their design concepts, giving form to strategic thinking. Develops approaches and techniques to evaluate the plural structure of the built environment and offer propositions that address policies and regulations as well as the values, behaviors, and wishes of the different users.
E. Ben-Joseph, M. Ocampo

Same subject as 4.241[J]
Prereq: 11.001[J], 11.301[J], or permission of instructor
G (Spring)
Units arranged
See description under subject 4.241[J].
L. Jacobi, R. Segal


11.332[J] Urban Design Studio
Same subject as 4.163[J]
Prereq: Permission of instructor
G (Fall)
Units arranged
Can be repeated for credit.
See description under subject 4.163[J].
Consult R. Segal

11.333[J] Urban Design Seminar: Perspectives on Contemporary Practice
Same subject as 4.244[J]
Prereq: None
G (Spring)
2-0-7 units
Examines innovations in urban design practice occurring through the work of leading practitioners in the fields of architecture, landscape architecture, and urban planning. Features lectures by major national and global practitioners in urban design. Projects and topics vary based on term and speakers but may cover architectural urbanism, landscape and ecology, arts and culture, urban design regulation and planning agencies, and citywide and regional design. Focuses on analysis and synthesis of themes discussed in presentations and discussions.
Staff

11.334[J] Advanced Seminar in Landscape and Urbanism
Same subject as 4.264[J]
Prereq: Permission of instructor
G (Spring)
Not offered regularly; consult department
3-0-9 units
Explores theories, practices, and emerging trends in the fields of landscape architecture and urbanism, such as systemic design, landscape urbanism, engineered nature, drosscapes, urban biodiversity, urban mobility, megaregions, and urban agriculture. Lectures, readings, and guest speakers present a wide array of multi-disciplinary topics, including current works from P-REX lab. Students conduct independent and group research that is future-oriented.
A. Berger

11.337[J] Urban Design Ideals and Action
Same subject as 4.247[J]
Prereq: None
G (Fall)
2-0-7 units
Examines the relationship between urban design ideals, urban design action, and the built environment through readings, discussions, presentations, and papers. Analyzes the diverse design ideals that influence cities and settlements, and investigates how urban designers use them to shape urban form. Provides a critical understanding of the diverse formal methods used to intervene creatively in both developed and developing contexts, especially pluralistic and informal built environments.
B. Ryan

11.338 Urban Design Studio
Prereq: 11.328[J] or permission of instructor
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Fall)
Units arranged
Examines the rehabilitation and re-imagination of a city, region, or territory. Analyzes human settlement at multiple scales: regional, citywide, neighborhood, and individual dwellings. Aims to shape innovative design solutions, enhance social amenity, and improve economic equity through strategic and creative geographical, urban design and architectural thinking. Intended for students with backgrounds in architecture, community development, urban design, and physical planning. Limited to 12 via application and lottery.
B. Ryan

11.339 Downtown
Subject meets with 11.026[J], 21H.321[J]
Prereq: None
G (Spring)
Not offered regularly; consult department
2-0-7 units
Seminar on downtown in US cities from the late 19th century to the late 20th. Emphasis on downtown as an idea, place, and cluster of interests, on the changing character of downtown, and on recent efforts to rebuild it. Topics considered include subways, skyscrapers, highways, urban renewal, and retail centers. Focus on readings, discussions, and individual research projects. Students taking graduate version complete additional assignments.
R. M. Fogelson
11.344[J] Innovative Project Delivery in the Public and Private Sectors
Same subject as 1.472[J]
Prereq: None
G (Spring; first half of term)
2.0-4 units
Develops a strong strategic understanding of how best to deliver various types of projects in the built environment. Examines the compatibility of various project delivery methods, consisting of organizations, contracts, and award methods, with certain types of projects and owners. Six methods examined: traditional general contracting; construction management; multiple primes; design-build; turnkey; and build-operate-transfer. Includes lectures, case studies, guest speakers, and a team project to analyze a case example.
C. M. Gordon

11.345[J] Entrepreneurship in the Built Environment
Same subject as 1.462[J]
Prereq: Permission of instructor
G (Fall; first half of term)
2.0-4 units
Introduction to entrepreneurship and how it shapes the world we live in. Through experiential learning in a workshop setting, students start to develop entrepreneurial mindset and skills. Through a series of workshops, students are introduced to the concept of Venture Design to create new venture proposals for the built environment as a method to understand the role of the entrepreneur in the fields of design, planning, real estate, and other related industries.
S. Gronfeldt, G. Rosenzweig

11.350 Sustainable Real Estate: Economics & Business
Prereq: None
G (Spring)
3.0-9 units
Offers insight into tension and synergy between sustainability and the real estate industry. Considers why sustainability matters for real estate, how real estate can contribute to sustainability and remain profitable, and what investment and market opportunities exist for sustainable real estate products and how they vary across asset classes. Lectures combine economic and business insights and tools to understand the challenges and opportunities of sustainable real estate. Provides a framework to understand issues in sustainability in real estate and examine economic mechanisms, technological advances, business models, and investment and financing strategies available to promote sustainability. Discusses buildings as basic physical assets; cities as the context where buildings interact with the built environment, policies, and urban systems; and portfolios as sustainable real estate investment vehicles in capital markets. Enrollment for MSRED, MCP, and MBA students is prioritized.
Zheng, Siqi; Tan, Zhengzhen

11.351 Real Estate Ventures I: Negotiating Development-Phase Agreements
Prereq: None
G (Fall)
3.0-9 units
Focuses on key business and legal issues within the principal agreements used to control, entitle, capitalize, and construct a mixed-use real estate development. Through the lens of the real estate developer and its counter-parties, students identify, discuss, and negotiate the most important business issues in right of entry, purchase and sale, development, and joint-venture agreements, as well as a construction contract and construction loan agreement. Students work closely with attorneys who specialize in the construction of such agreements and with students from area law schools and Columbia University and New York University. Enrollment limited to approximately 25; preference to MSRED students. No listeners.
W. T. McGrath
11.352 Real Estate Ventures II: Negotiating Leases, Financings, and Restructurings
Prereq: None
G (Spring)
3-0-9 units

Focuses on key business and legal issues within the principal agreements used to lease, finance, and restructure a real estate venture. Through the lens of the real estate developer and its counter-parties, students identify, discuss and negotiate the most important business issues in office and retail leases, and permanent loan, mezzanine loan, inter-creditor, standstill/forbearance, and loan modification (workout) agreements. Students work closely with attorneys who specialize in the construction of such agreements and with students from area law schools and New York University and Columbia University. Single-asset real estate bankruptcy and the federal income tax consequences of debt restructuring are also addressed. Limited to 25; preference to MSRED students; no listeners.

W. T. McGrath

11.355 International Housing Economics and Finance
Prereq: 11.202, 11.203, 14.01, or permission of instructor
G (Spring)
3-0-6 units
Credit cannot also be received for 11.145

Presents a theory of comparative differences in international housing outcomes. Introduces institutional differences in ways housing expenditures are financed, and economic determinants of housing outcomes (construction costs, land values, housing quality, ownership rates). Analyzes flow of funds to and from the different national housing finance sectors. Develops an understanding of the greater financial and macroeconomic implications of mortgage credit sector, and how policies affect ways housing asset fluctuations impact national economies. Considers perspective of investors in international real estate markets and risks and rewards involved. Draws on lessons from international comparative approach, applies them to economic and finance policies at the local, state/provincial, and federal levels within country of choice. Meets with 11.145 when offered concurrently. Students taking graduate version complete additional assignments.

A. Saiz

11.356 Healthy Cities: Assessing Health Impacts of Policies and Plans
Subject meets with 11.156
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units

Examines the built, psychosocial, economic, and natural environment factors that affect health behaviors and outcomes, including population-level patterns of disease distribution and health disparities. Introduces tools designed to integrate public health considerations into policy-making and planning. Provides extensive practical, budgeting, and programming training in the application of health impact assessment tools meant to integrate Health in All Policies, including Health Impact Assessment (HIA) methodology, which brings a health lens to policy, budgeting, and planning debates. Emphasizes health equity and healthy cities, and explores the relationship between health equity and broader goals for social and racial justice. Students taking graduate version complete additional assignments. Limited to 30.

M. Arcaya
11.360 Community Growth and Land Use Planning
Prereq: Permission of instructor
G (Fall)
3-0-9 units
Seminar, workshops, and fieldwork on strategies to use municipal land use regulations to shape urban growth and equity. Practicum workshop builds skills in civic engagement, policy-relevant research, zoning regulations, and physical design and planning. The workshop begins with implementation of qualitative and quantitative research into the existing built environment, social, economic, and political context. It continues with the planning, design, and implementation of community engagement strategies to shape goals and vision for the projects. The practicum then explores land use scenarios, design and innovative zoning and regulatory techniques, to improve equity in the areas of housing, environment, economic development, mobility, and the public realm. Projects arranged with small teams serving municipal clients experiencing pressures of urban growth and change in Massachusetts. Preference to MCP second year students.
J. Levine

11.365 Sustainable Urbanization Practicum
Prereq: None
G (Spring)
Not offered regularly; consult department
3-0-9 units
Working with a city development client (city government/real estate developer/NGO) in a fast-urbanizing region, practicum provides students an opportunity to synthesize policy, planning or urban science solutions towards sustainable urbanization, within the constraints of a client-based project. Priority is given to MCP students.
S. Zheng

11.367 Land Use Law and Politics: Race, Place, and Law
Subject meets with 11.067
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units
Explores conceptions of spatial justice and introduces students to basic principles of US law and legal analysis, focused on land use, equal protection, civil rights, fair housing, and local government law, in order to examine who should control how land is used. Examines the rights of owners of land and the types of regulatory and market-based tools that are available to control land use. Explores basic principles of civil rights and anti-discrimination law and focuses on particular civil rights problems associated with the land use regulatory system, such as exclusionary zoning, residential segregation, the fair distribution of undesirable land uses, and gentrification. Introduces basic skills of statutory drafting and interpretation. Assignments differ for those taking the graduate version.
J. Steil

11.368 Environmental Justice: Law and Policy
Subject meets with 11.148
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Fall)
3-0-9 units
Introduces frameworks for analyzing and addressing inequalities in the distribution of environmental benefits and burdens, particularly by race and by class. Explores the foundations and principles of the environmental justice movement from the perspectives of social science, public policy, and law. Introduces basic principles of US constitutional and environmental law, with a focus on equal protection and civil rights. Applies environmental justice principles to contemporary issues in urban policy and planning, including effects of and responses to climate change and global heating. Students taking graduate version complete additional assignments.
J. Steil

11.371[J] Sustainable Energy
Same subject as 1.818[J], 2.65[J], 10.391[J], 22.811[J]
Subject meets with 2.650[J], 10.291[J], 22.081[J]
Prereq: Permission of instructor
G (Fall)
3-1-8 units
See description under subject 22.811[J].
M. W. Golay
11.373[J] Science, Politics, and Environmental Policy
Same subject as 12.885[J]
Subject meets with 12.385
Prereq: Permission of instructor
G (Fall)
3-0-6 units
See description under subject 12.885[J].
S. Solomon, J. Knox-Hayes

11.381 Infrastructure Systems in Theory and Practice
Prereq: (14.01 and (11.202 or 11.203)) or permission of instructor
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units
Examines theories of infrastructure from science and technology studies, history, economics, and anthropology in order to understand the prospects for change for many new and existing infrastructure systems. Examines how these theories are then implemented within systems in the modern city, including but not limited to, energy, water, transportation, and telecommunications infrastructure. Seminar is conducted with intensive group research projects, in-class discussions and debates.
D. Hsu

11.382 Water Diplomacy: The Science, Policy, and Politics of Managing Shared Resources
Prereq: Permission of instructor
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units
Examines the history and dynamics of international environmental treaty-making, or what is called environmental diplomacy. Emphasizes climate change and other atmospheric, marine resource, global waste management and sustainability-related treaties and the problems of implementing them. Reviews the legal, economic, and political dynamics of managing shared resources, involving civil society on a global basis, and enforcing transboundary agreements. Focuses especially on principles from international relations, international law, environmental management, and negotiation theory as they relate to common-pool resource management.
L. Susskind

11.383[J] People and Profits: Shaping the Future of Work
Same subject as 15.662[J]
Prereq: None
G (Spring)
3-1-8 units
See description under subject 15.662[J].
A. Stansbury

11.387 Environmental Finance and Political Economy
Prereq: Permission of instructor
G (Fall)
Not offered regularly; consult department
3-0-9 units
Examines the sociopolitical, cultural and economic dimensions of the financialization of environmental goods and services. Provides an introduction to key financial terms, practices, and institutions; analyzes the logics and origins of environmental finance, as well as the operation and implications of particular systems such as carbon-trading, REDD and ecosystem service pricing and swapping. Limited to 15.
J. Knox-Hayes

11.388[J] Dimensions of Geoengineering
Same subject as 1.850[J], 5.000[J], 10.600[J], 12.884[J], 15.036[J], 16.645[J]
Prereq: None
G (Fall; first half of term)
Not offered regularly; consult department
2-0-4 units
See description under subject 5.000[J]. Limited to 100.
J. Deutch, M. Zuber

11.401 Introduction to Housing, Community, and Economic Development
Subject meets with 11.041
Prereq: None
G (Fall)
3-0-9 units
Provides a critical introduction to the shape and determinants of political, social, and economic inequality in America, with a focus on racial and economic justice. Explores the role of the city in visions of justice. Analyzes the historical, political, and institutional contexts of housing and community development policy in the US, including federalism, municipal fragmentation, and decentralized public financing. Introduces major dimensions in US housing policy, such as housing finance, public housing policy, and state and local housing affordability mechanisms. Reviews major themes in community economic development, including drivers of economic inequality, small business policy, employment policy, and cooperative economics. Expectations and evaluation criteria differ for students taking graduate version.
J. Steil
11.402 Urban Politics: Race and Political Change
Prereq: None
G (Fall)
Not offered regularly; consult department
3-0-9 units
Examines the place of US cities in political theory and practice. Particular attention given to contemporary issues of racial polarization, demographic change, poverty, sprawl, and globalization. Specific cities are a focus for discussion.

J. P. Thompson

11.403 Urban China Research Seminar
Prereq: Permission of instructor
G (Fall)
Not offered regularly; consult department
2-0-7 units
Can be repeated for credit.
Examines the behavioral foundations and key policy issues of urban development, real estate markets, and sustainability in China. Discusses urban agglomeration economies, place-based investment, and urban vibrancy; economic geography of innovation and entrepreneurship; real estate dynamics and housing policies; land use and transportation; and urban quality of life and green cities, focusing on China but with some international comparisons.

S. Zheng

11.404 Housing Policy and Planning in the US and Abroad
Prereq: None
G (Spring)
Not offered regularly; consult department
3-0-9 units
Explores the policy tools and planning techniques used to formulate and implement housing strategies at local, state and federal levels. Topics include America’s housing finance system and the causes of instability in mortgage markets; economic and social inequity in access to affordable housing; approaches to meeting community housing needs through local and state planning programs; programs for addressing homelessness; and emerging ideas about sustainable development and green building related to housing development and renovation. Introduces comparative policy approaches from other countries.

Staff

11.405 Political Economy & Society
Prereq: Permission of instructor
G (Fall)
Not offered regularly; consult department
3-0-6 units
Focuses on the connection (or not) between mind (theory) and matter (lived experience). Examines basic tenets of classical and recent political economic theories and their explication in ideas of market economies, centrally planned economies, social market economies, and co-creative economies. Assesses theories according to their relation to the lived experiences of people in communities and workplaces.

J. P. Thompson

11.407 Tools and Techniques for Inclusive Economic Development
Subject meets with 11.107
Prereq: Permission of instructor
G (Fall)
3-0-9 units
Introduces tools and techniques in economic development planning. Extensive use of data collection, analysis, and display techniques. Students build interpretive intuition skills through user experience design activities and develop a series of memos summarizing the results of their data analysis. These are aggregated into a final report, and include the tools developed over the semester. Students taking graduate version will complete modified assignments focused on developing computer applications.

A. Glasmeier

11.409 The Institutions of Modern Capitalism: States and Markets
Prereq: None
G (Fall)
2-0-10 units
Investigates the relationship between states and markets in the evolution of modern capitalism. Critically assesses the rise of what Karl Polanyi and Albert Hirschman have referred to as "market society:" a powerful conceptual framework that views the development of modern capitalism not as an outcome of deterministic economic and technological forces, but rather as the result of contingent social and political processes. Exposes students to a range of conceptual tools and analytic frameworks through which to understand the politics of economic governance and to consider the extent to which societal actors can challenge its limits and imagine alternative possibilities. Sub-themes vary from year to year and have focused on racial capitalism, markets and morality, urban futures, and the global financial crisis. Limited to 25.

J. Jackson
11.411 The Political Economy of Planning
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Fall)
3-0-9 units

Introduces students to key planning ideas and practices that shape the political economy of planning: the way that planning interventions generate distributional effects that create winners and losers across different spatial and temporal scales. Highlights ways in which planning interventions seek to order society and shape spaces, as well as the ways these efforts have been contested and resisted. Takes a global and comparative perspective, surveying planning ideas and experiences across diverse contexts. Develops analytic tools to understand the broad field of planning theory and the asymmetries of power that these imply in planning practice. Planning is a complex and multifaceted set of endeavors, and as such the class is interdisciplinary, drawing from planning theory and history as well as sociology, political science, geography, history, and the design disciplines.

J. Jackson

11.413 The Economic Approach to Cities and Environmental Sustainability
Subject meets with 11.113
Prereq: 11.220, 14.300, or permission of instructor
G (Spring)
Not offered regularly; consult department
3-0-9 units
Can be repeated for credit.

Provides a systematic framework of the interplay (both tension and synergy) between urbanization and environmental sustainability from a global perspective. Enhances analytical reasoning and quantitative skills to assist evidence-based empirical study and policy design evaluation. Explores the causes and consequences of urban environmental quality dynamics, and provides econometric tools to quantify such relationships. Examines state-of-the-art research in this field by introducing empirical studies from both developing and developed countries (highlighting fast urbanization). Themes include urban production, households, transportation and form, as well as political economy and climate resilience. Students taking graduate version complete additional assignments.

S. Zheng

11.422[J] Law, Technology, and Public Policy
Same subject as 15.655[J], IDS.435[J]
Subject meets with 11.122[J], IDS.066[J]
Prereq: None
G (Fall)
3-0-9 units
See description under subject IDS.435[J].

N. Ashford, C. Caldart

11.427[J] Labor Markets and Employment Policy
Same subject as 15.677[J]
Prereq: Permission of instructor
G (Spring)
3-0-9 units
See description under subject 15.677[J]. Preference to graduate and PhD students.
A. Stansbury

11.429[J] Real Estate Markets: Macroeconomics
Same subject as 15.022[J]
Prereq: 11.431[J] or permission of instructor
G (Spring; first half of term)
3-0-3 units
Applies the latest economic thinking and research to the task of analyzing aggregate real estate market time series, assessing risk, and developing forecasts. Presents the premise that because of capital durability and construction lags, real estate markets exhibit some degree of mean reversion and as such are at least partially predictable. Examines the extent and causes of market volatility across different markets and types of property. Long-term aggregate trends impacting the real estate sector, from demographics to technology, discussed. Limited to 30.

W. Wheaton

11.430[J] Leadership in Real Estate
Same subject as 15.941[J]
Prereq: None
G (Fall; first half of term)
3-0-3 units
Designed to help students deepen their understanding of leadership and increase self-awareness. They reflect on their authentic leadership styles and create goals and a learning plan to develop their capabilities. They also participate in activities to strengthen their "leadership presence" - the ability to authentically connect with people's hearts and minds. Students converse with classmates and industry leaders to learn from their insights, experiences, and advice. Limited to 15.

G. Schuck
11.431[J] Real Estate Finance and Investment
Same subject as 15.426[J]
Prereq: Permission of instructor
G (Fall)
4-0-8 units

Concepts and techniques for analyzing financial decisions in commercial property development and investment. Topics include property income streams, discounted cash flow, equity valuation, leverage and income tax considerations, development projects, and joint ventures. An introduction to real estate capital markets as a source of financing is also provided. Limited to graduate students.

W. Torous

11.433[J] Real Estate Economics
Same subject as 15.021[J]
Prereq: 14.01, 15.010, or 15.011
G (Fall)
4-0-8 units

Develops an understanding of the fundamental economic factors that shape the market for real property, as well as the influence of capital markets in asset pricing. Analyzes of housing as well as commercial real estate. Covers demographic analysis, regional growth, construction cycles, urban land markets, and location theory as well as recent technology impacts. Exercises and modeling techniques for measuring and predicting property demand, supply, vacancy, rents, and prices.

A. Saiz

11.435 Mixed-Income Housing Development
Prereq: None
G (Spring; first half of term)
3-0-3 units

Provides an overview of affordable and mixed-income housing development for students who wish to understand the fundamental issues and requirements of urban scale housing development, and the process of planning, financing and developing such housing. Students gain practical experience assembling a mixed-income housing development proposal.

L. Reid, W. Monson

11.437 Financing Economic Development and Housing
Subject meets with 11.137
Prereq: None
G (Spring)
4-0-8 units

Studies financing tools and program models to support and promote local economic development and housing. Overview of public and private capital markets and financing sources helps illustrate market imperfections that constrain economic and housing development and increase race and class disparities. Explores federal housing and economic development programs as well as state and local public finance tools. Covers policies and program models. Investigates public finance practice to better understand how these finance programs affect other municipal operations. Students taking graduate version complete additional assignments.

Limited to 25.

J. Levine

11.438 Economic Development Planning
Prereq: 11.203, 11.220, and permission of instructor
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units

Focuses on the policy tools and planning techniques used to formulate and implement local economic development strategies. Includes an overview of economic development theory, discussion of major policy areas and practices employed to influence local economic development, a review of analytic tools to assess local economies and how to formulate strategy. Coursework includes formulation of a local economic development strategy for a client. Limited to 15.

K. Seidman

11.439 Revitalizing Urban Main Streets
Prereq: Permission of instructor
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Fall)
4-0-11 units

Workshop explores the integration of economic development and physical planning interventions to revitalize urban commercial districts. Covers: an overview of the causes of urban business district decline, revitalization challenges, and the strategies to address them; the planning tools used to understand and assess urban Main Streets from both physical design and economic development perspectives; and the policies, interventions, and investments used to foster urban commercial revitalization. Students apply the theories, tools and interventions discussed in class to preparing a formal neighborhood commercial revitalization plan for a client business district. Limited to 15.

J. Levine
11.440 Housing and Social Stratification in the United States
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units
Investigates how housing — markets, policies, and individual and collective actions — stratifies society. Students develop structural frameworks to understand the processes of stratification. Grounding work and research in history, students identify the ways that housing markets and housing market interventions reflect, reinforce, and (occasionally) combat social inequities. Through extensive writing and rewriting, students frame their work in terms of overlapping crises, including gentrification, flight, shortage, and homelessness.
D. M. Bunten

11.441 Planning, Economic Development, and Municipal Public Finance
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units
Explores the relationship between municipal planning initiatives and local public finance. Introduces a variety of tools, including annual fiscal year budgeting, development of capital improvement plans, user fees, and local property taxation. Municipal powers to levy taxes on items such as meals, hotel rooms, and sales and their effects on land use decisions are analyzed. Tools for economic development, such as tax increment finance, explored in the context of the potential benefits and drawbacks of such tools for a local economy. Also explores how planners can encourage more inclusive budgeting decisions through tools such as participatory budgeting. Students complete a final project on a municipal finance tool and its relationship to local planning goals.
J. Levine

11.442 Geography of the Global Economy
Subject meets with 11.142
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Fall)
3-0-9 units
Analyzes implications of economic globalization for communities, regions, international businesses and economic development organizations. Uses spatial analysis techniques to model the role of energy resources in shaping international political economy. Investigates key drivers of human, physical, and social capital flows and their roles in modern human settlement systems. Surveys contemporary models of industrialization and places them in geographic context. Connects forces of change with their implications for the distribution of wealth and human well-being. Looks backward to understand pre-Covid conditions and then returns to the present to understand how a global pandemic changes the world. Class relies on current literature and explorations of sectors. Students taking graduate version complete additional assignments.
A. Glasmeier

11.449 Decarbonizing Urban Mobility
Subject meets with 11.149
Prereq: None
G (Spring)
3-3-6 units
Focuses on measuring and reducing emissions from passenger transportation. After examining travel, energy, and climate conditions, students review existing approaches to transport decarbonization. Evaluates new mobility technologies through their potential to contribute to (or delay) a zero emission mobility system. Students consider the policy tools required to achieve approaches to achieve change. Frames past and future emission reductions using an approach based on the Kaya Identity, decomposing past (and potential future) emissions into their component pieces. Seeks to enable students to be intelligent evaluators of approaches to transportation decarbonization and equip them with the tools to develop and evaluate policy measures relevant to their local professional challenges. Students taking graduate version complete additional assignments.
J. Zhao, A. Salzberg
11.450 Real Estate Development Building Systems
Prereq: None
G (Fall; first half of term)
2-0-1 units

Provides students with a concise overview of the range of building systems that are encountered in professional commercial real estate development practice in the USA. Focuses on the relationship between real estate product types, building systems, and the factors that real estate development professionals must consider when evaluating these products and systems for a specific development project. Surveys commercial building technology including Foundation, Structural, MEP/FP, Envelope, and Interiors systems and analyzes the factors that lead development professionals to select specific systems for specific product types. One or more field trips to active construction sites may be scheduled during non-class hours based on student availability.
Y. Tsipis

11.452 Planning against Evictions and Displacement
Prereq: None
Acad Year 2023-2024: G (Spring)
Acad Year 2024-2025: Not offered
3-0-9 units

Combines state-of-the-art research on evictions and displacement globally (in the context of the global crisis of evictions, land grabbing, and gentrification) with the study of policy and practical responses to displacement, assisted by selected case studies. First half covers explanations about the mechanisms and drivers of displacement, while the second half introduces and evaluates policy and legal responses developed by many actors. Analyzes the use of UN and national standards on displacement as well as the use of tools such as the Eviction Impact Assessment Tool. Limited to 15 graduate students.
B. Rajagopal

11.454 Big Data, Visualization, and Society
Subject meets with 11.154
Prereq: None
G (Spring)
Not offered regularly; consult department
3-0-9 units

Data visualizations communicate the insights found in data to non-technical audiences. Students develop technical skills to work with big data to expose societal issues and communicate the insights. Focuses on different topics each year. After framing that topic, the first half of the subject focuses on learning to analyze the data with Python. The second half of the subject focuses on learning web-based data visualization tools (JavaScript and D3). Students learn data storytelling concepts and produce web-based data visualizations for their final projects. Throughout, students learn ethical data practices. Students taking graduate version complete additional assignments.
S. Williams

11.C85[J] Interactive Data Visualization and Society
Same subject as 6.C85[J]
Prereq: None
G (Spring)
3-1-8 units
Credit cannot also be received for 6.8530, 11.154, 11.454
See description under subject 6.C85[J].
C. D’Ignazio, A. Satyanarayan, S. Williams

11.457 More than Data: Smart Cities, Big Data, Civic Technology and Policy
Prereq: None
G (Spring)
Not offered regularly; consult department
3-0-6 units

Discussions of future directions in the 'smart cities' debate. Begins by framing the current smart city with past trends such as the efficient city movement of the 1930s and the Modernist city of the 1950s and 60s. Examines current trends in big data, civic apps, Code for America, the open data movement, DIY data collections devices, and their policy impacts.
S. Williams
11.458 Crowd Sourced City: Civic Tech Prototyping
Subject meets with 11.138
Prereq: None
G (Fall)
3-0-9 units
Investigates the use of social medial and digital technologies for planning and advocacy by working with actual planning and advocacy organizations to develop, implement, and evaluate prototype digital tools. Students use the development of their digital tools as a way to investigate new media technologies that can be used for planning. Students taking graduate version complete additional assignments.
S. Williams, C. D’Ignazio

11.461[J] Technocracy
Same subject as STS.463[J]
Prereq: None
G (Fall)
Not offered regularly; consult department
3-0-9 units
See description under subject STS.463[J].
J. S. Light

11.466[J] Technology, Globalization, and Sustainable Development
Same subject as 1.813[J], 15.657[J], IDS.437[J]
Prereq: Permission of instructor
G (Fall)
3-0-9 units
See description under subject IDS.437[J].
N. Ashford

11.469 Urban Sociology in Theory and Practice
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units
Introduction to core writings in urban sociology. Explores the nature and changing character of the city and the urban experience, providing context for the development of urban studies research and planning skills. Topics include the changing nature of community, neighborhood effects, social capital and networks, social stratification, feminist theory and critical race theory, and the interaction of social structure and political power. Subject will take place in the Massachusetts Correctional Institution at Norfolk with half of the class from MIT and half of the class from MCI-Norfolk. Limited to 25.
J. Steil

11.472[J] D-Lab: Development
Same subject as EC.781[J]
Subject meets with 11.025[J], EC.701[J]
Prereq: None
G (Fall)
3-2-7 units
See description under subject EC.781[J]. Enrollment limited by lottery; must attend first class session.
S. L. Hsu, A. B. Smith, B. Sanyal

11.474 D-Lab: Water, Sanitation and Hygiene
Subject meets with EC.715
Prereq: None
G (Spring)
3-0-9 units
Focuses on disseminating Water, Sanitation, and Hygiene (WASH) innovations in low-income countries and underserved communities worldwide. Structured around project-based learning, lectures, discussions, and student-led tutorials. Emphasizes core WASH principles, appropriate and sustainable technologies at household and community scales, urban challenges worldwide, culture-specific solutions, lessons from start-ups, collaborative partnerships, and social marketing. Mentored term project entails finding and implementing a viable solution focused on education/training; a technology, policy or plan; a marketing approach; and/or behavior change. Guest lecturers present case studies, emphasizing those developed and disseminated by MIT faculty, practitioners, students, and alumni. Field trips scheduled during class time, with optional field trips on weekends. Students taking graduate version complete additional assignments. Limited to 20.
S. E. Murcott, S. L. Hsu

Same subject as 1.286[J]
Subject meets with 11.165
Prereq: 11.203, 14.01, or permission of instructor
G (Fall)
3-0-9 units
Examines efforts in developing and advanced nations and regions. Examines key issues in the current and future development of urban energy systems, such as technology, use, behavior, regulation, climate change, and lack of access or energy poverty. Case studies on a diverse sampling of cities explore how prospective technologies and policies can be implemented. Includes intensive group research projects, discussion, and debate.
D. Hsu
11.478 Behavioral Science, AI, and Urban Mobility
Subject meets with 11.158
Prereq: Permission of instructor
G (Fall)
3-0-9 units
Integrates behavioral science, artificial intelligence, and transportation technology to shape travel behavior, design mobility systems and business, and reform transportation policies. Introduces methods to sense travel behavior with new technology and measurements; nudge behavior through perception and preference shaping; design mobility systems and ventures that integrate autonomous vehicles, shared mobility, and public transit; and regulate travel with behavior-sensitive transport policies. Challenges students to pilot behavioral experiments and design creative mobility systems, business and policies. Students taking graduate version complete additional assignments.
J. Zhao

11.480 Urbanization and Development
Prereq: None
G (Spring)
Not offered regularly; consult department
3-0-9 units
Examines developmental dynamics of rapidly urbanizing locales, with a special focus on the developing world. Case studies from India, China, Mexico, Brazil, and South Africa form the basis for discussion of social, spatial, political and economic changes in cities spurred by the decline of industry, the rise of services, and the proliferation of urban mega projects. Emphasizes the challenges of growing urban inequality, environmental risk, citizen displacement, insufficient housing, and the lack of effective institutions for metropolitan governance. Students taking graduate version complete additional assignments.
Staff

11.484 Project Appraisal in Developing Countries
Prereq: Permission of instructor
G (Spring)
Not offered regularly; consult department
3-0-9 units
Covers techniques of financial analysis of investment expenditures, as well as the economic and distributive appraisal of development projects. Critical analysis of these tools in the political economy of international development is discussed. Topics include appraisal’s role in the project cycle, planning under conditions of uncertainty, constraints in data quality and the limits of rational analysis, and the coordination of an interdisciplinary appraisal team. Students taking graduate version complete additional assignments. Enrollment limited; preference to majors.
Y. Hong

11.485 Southern Urbanisms
Prereq: None
Acad Year 2023-2024: G (Fall)
Acad Year 2024-2025: Not offered
2-0-10 units
Guides students in examining implicit and explicit values of diversity offered in “Southern” knowledge bases, theories, and practices of urban production. With a focus on Sub-Saharan Africa, considers why the South-centered location of the estimated global urban population boom obligates us to examine how cities work as they do, and why Western-informed urban theory and planning scholarship may be ill-suited to provide guidance on urban development there. Examines the “rise of the rest” and its implications for the making and remaking of expertise and norms in planning practice. Students engage with seminal texts from leading authors of Southern urbanism and critical themes, including the rise of Southern theory, African urbanism, Chinese international cooperation, Brazilian urban diplomacy, and the globally-driven commodification of urban real estate.
G. Carolini

11.486 Peace and Conflict Geographies
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units
Explores the spatialization of conflict and peace from perspectives within the humanities and social sciences. Examines claims on territory, resources, and homeland; traces the legacies of violence in landscapes both personal and public; considers the use of planning and architecture to build peace; and attends to experiences of displacement and dispossession. Discusses how conflict and peace geographies provide insight into various scales of power and repair that shape how individuals live together.
D. Wendel
11.487 Budgeting and Finance for the Public Sector
Subject meets with 11.147
Prereq: None
G (Spring)
Not offered regularly; consult department
3-0-9 units

Examines globally relevant challenges of adequately and effectively attending to public sector responsibilities for basic services with limited resources. Particular attention to the contexts of fiscal crises and rapid population growth, as well as shrinkage, through an introduction to methods and processes of budgeting, accounting, and financial mobilization. Case studies and practice exercises explore revenue strategies, demonstrate fiscal analytical competencies, and familiarize students with pioneering examples of promising budget and accounting processes and innovative funding mobilization via taxation, capital markets, and other mechanisms (e.g., land-value capture). Students taking graduate version explore the subject in greater depth.

G. Carolini

11.490 Law and Development
Prereq: Permission of instructor
G (Spring)
Not offered regularly; consult department
2-0-10 units

Examines the role of law in development and introduces economic and legal theories. Topics include formality/informality of property, contracts and bargaining in the shadow of the law, institutions for transparency and accountability, legitimation of law, sequencing of legal reform, and international economic law aspects. Studies the roles of property rights in economic development, the judiciary and the bureaucracy in development, and law in aid policy. Includes selected country case studies. Limited to 15.

B. Rajagopal

11.493 Property and Land Use Law for Planners
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Fall)
3-0-9 units

Examines legal and institutional arrangements for the establishment, transfer, and control over property and land under American and selected comparative systems, including India and South Africa. Focuses on key issues of property and land use law regarding planning and economic development. Emphasizes just and efficient resource use; institutional, entitlement and social relational approaches to property; distributional and other social aspects; and the relationship between property, culture, and democracy.

B. Rajagopal

11.494 Cities of Contested Memory
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units

Explores relationships between built environments and memory to consider the spaces and spatial practices in which the future of the past is imagined, negotiated, and contested. Focuses on three areas of critical importance to understanding the nature of memory in cities today: the threats that rapid urban development pose to the remembrance of urban pasts; the politics of representation evident in debates over authorized and marginalized historical narratives; and the art and ethics of sensitively addressing the afterlives of violence and tragedy. Emphasizes group discussions and projects as means to explore collective and counter memories, the communities that are formed therein, and the economic, social, and political forces that lift up certain memories over others to shape the legacy of the past. Limited to 15.

D. Wendel

11.495 Governance and Law in Developing Countries
Prereq: Permission of instructor
G (Fall)
Not offered regularly; consult department
2-0-10 units

Examines the multiple dimensions of governance in international development with a focus on the role of legal norms and institutions in the balance between state and the market. Analyzes changes in the distribution of political and legal authority as a result of economic globalization. Topics include the regulation of firms; forms of state and non-state monitoring; varieties of capitalism, global governance and development; and good governance, including transparency and accountability mechanisms, the role of the judiciary and legal culture, and tools for measuring governance performance.

B. Rajagopal
11.496 Law, Social Movements, and Public Policy: Comparative and International Experience
Subject meets with 11.166
Prereq: Permission of instructor
G (Spring)
Not offered regularly; consult department
3-0-9 units
Studies the interaction between law, courts, and social movements in shaping domestic and global public policy. Examines how groups mobilize to use law to affect change and why they succeed and fail. Case studies explore the interplay between law, social movements, and public policy in current issues, such as gender, race, labor, trade, climate change/environment, and LGBTQ rights. Introduces theories of public policy, social movements, law and society, and transnational studies. Students taking graduate version complete additional assignments. Limited to 15.
B. Rajagopal

11.497 Human Rights at Home and Abroad
Subject meets with 11.164[J], 17.391[J]
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Fall)
2-0-10 units
Provides a rigorous and critical introduction to the history, foundation, structure, and operation of the human rights movement. Focuses on key ideas, actors, methods and sources, and critically evaluates the field. Addresses current debates in human rights, including the relationship with security, democracy, development and globalization, urbanization, equality (in housing and other economic and social rights; women’s rights; ethnic, religious and racial discrimination; and policing/conflict), post-conflict rebuilding and transitional justice, and technology in human rights activism. Students taking graduate version expected to write a research paper.
B. Rajagopal

11.499 Master of Science in Real Estate Development Thesis Preparation
Prereq: None
G (Spring; first half of term)
2-0-1 units
Designed to give students the tools and information needed to successfully complete a master’s level thesis. Seminar topics include, but are not limited to: research data sets, different types and styles of theses, the writing and editing process, library services, and the use of humans as experimental subjects in research. CRE faculty share their areas of interest to assist in choosing an advisor. Seminar assignments guide students toward developing a thesis topic and realistic work plan to adequately achieve their research and writing goals. Objective is for each student to have sufficient knowledge to author a fully developed thesis topic and formal proposal by the end of the term. Limited to MS in Real Estate Development candidates.
A. Saiz

11.520 Workshop on Geographic Information Systems (GIS)
Prereq: 11.205 or permission of instructor
G (Fall, Spring; second half of term)
2-2-2 units
Includes spatial analysis exercises using real-world data sets, building toward an independent project in which students critically apply GIS techniques to an area of interest. Students build data discovery, cartography, and spatial analysis skills while learning to reflect on power and positionality within the research design process. Tailored to GIS applications within planning and design and emphasizes the role of reflective practice in GIS. Enrollment limited; preference to MCP students.
S. Williams, C. D’Ignazio, E. Huntley

11.521 Spatial Database Management and Advanced Geographic Information Systems
Prereq: 11.205 and Coreq: 11.220; or permission of instructor
G (Spring)
Not offered regularly; consult department
3-3-6 units
Extends the computing and geographic information systems (GIS) skills developed in 11.520 to include spatial data management in client/server environments and advanced GIS techniques. First half covers the content of 11.523, introducing database management concepts, SQL (Structured Query Language), and enterprise-class database management software. Second half explores advanced features and the customization features of GIS software that perform analyses for decision support that go beyond basic thematic mapping. Includes the half-term GIS project of 11.524 that studies a real-world planning issue.
J. Ferreira
11.522 Research Seminar on Urban Information Systems
Prereq: Permission of instructor
G (Fall)
Not offered regularly; consult department
2-4-6 units
Can be repeated for credit.

Advanced research seminar enhances computer and analytic skills developed in other subjects in this sequence. Students present a structured discussion of journal articles representative of their current research interests involving urban information systems and complete a short research project. Suggested research projects include topics related to ongoing UIS Group research.

J. Ferreira

11.523 Fundamentals of Spatial Database Management
Prereq: 11.205 or permission of instructor
G (Fall; first half of term)
2-2-2 units

Develops technical skills necessary to design, build, and interact with spatial databases using the Structured Query Language (SQL) and its spatial extensions. Provides instruction in writing highly contextual metadata (data biographies). Prepares students to perform database maintenance, modeling, and digitizing tasks, and to critically evaluate and document data sources. Databases are implemented in PostgreSQL and PostGIS; students interface with these using QGIS.

E. Huntley

11.524 Advanced Geographic Information System Project
Prereq: (11.205 and 11.220) or permission of instructor
G (Fall; second half of term)
Units arranged
Can be repeated for credit.

Provides instruction in statistical approaches for analyzing interrelation, clustering, and interdependence, which are often key to understanding urban environments. Covers local and global spatial autocorrelation, interpolation, and kernel density methods; cluster detection; and spatial regression models. Develops technical skills necessary to ask spatial questions using inferential statistics implemented in the R statistical computing language. Prior coursework or experience in geographic information systems (GIS) at the introductory level required; prior coursework or experience in R is preferred.

E. Huntley

11.526[J] Comparative Land Use and Transportation Planning
Same subject as 1.251[J]
Prereq: None
G (Spring)
3-0-9 units

Focuses on the integration of land use and transportation planning, drawing from cases in both industrialized and developing countries. Highlights how land use and transportation influence the social organization of cities, assigning privileges to certain groups and segregating or negating access to the city to other groups. Covers topics such as accessibility; the use of data, algorithms, and bias; travel demand and travel behavior; governance; transit-oriented development; autonomous vehicles; transportation and real estate; and social, environmental, and health implications of land use and transportation. Develops students' skills to assess relevant policies, interventions, and impacts.

F. Duarte

11.529[J] Mobility Ventures: Driving Innovation in Transportation Systems
Same subject as 15.379[J]
Subject meets with 11.029[J], 15.3791[J]
Prereq: None
G (Fall)
3-3-6 units

Explores technological, behavioral, policy, and systems-wide frameworks for innovation in transportation systems, complemented with case studies across the mobility spectrum, from autonomous vehicles to urban air mobility to last-mile sidewalk robots. Students interact with a series of guest lecturers from CEOs and other business and government executives who are actively reshaping the future of mobility. Interdisciplinary teams of students collaborate to deliver business plans for proposed mobility-focused startups with an emphasis on primary market research. Students taking graduate version complete additional assignments.

J. Zhao, J. Moavenzadeh, J. Larios Berlin
11.540 Urban Transportation Planning and Policy
Prereq: None
G (Fall)
3-0-9 units
Examines transportation policymaking and planning; its relationship
to social and environmental justice; and the influences of politics,
governance structures, and human and institutional behavior.
Explores the pathway to infrastructure, how attitudes are influenced,
and how change happens. Examines the tensions and potential
synergies among traditional transportation policy values of
individual mobility, system efficiency, and "sustainability." Explores
the roles of the government; analysis of current trends; transport
sector decarbonization; land use, placemaking, and sustainable
mobility networks; the role of "mobility as a service;" and the
implications of disruptive technology on personal mobility. Assesses
traditional planning methods with a critical eye, and through that
process considers how to approach transportation planning in a way
that responds to contemporary needs and values, with an emphasis
on transport justice.
J. Aloisi

11.543[J] Transportation Policy, the Environment, and Livable
Communities
Same subject as 1.253[J]
Prereq: Permission of instructor
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units
Examines the economic and political conflict between transportation
and the environment. Investigates the role of government regulation,
green business and transportation policy as a facilitator of
economic development and environmental sustainability. Analyzes
a variety of international policy problems, including government-
business relations, the role of interest groups, non-governmental
organizations, and the public and media in the regulation of the
automobile; sustainable development; global warming; politics of
risk and siting of transport facilities; environmental justice; equity;
as well as transportation and public health in the urban metropolis.
Provides students with an opportunity to apply transportation and
planning methods to develop policy alternatives in the context of
environmental politics. Students taking graduate version complete
additional assignments.
J. Coughlin

Same subject as 1.200[J], IDS.675[J]
Subject meets with 1.041[J], IDS.075[J]
Prereq: 1.000, (1.00 and 1.010), or permission of instructor
G (Spring)
3-1-8 units
See description under subject 1.200[J].
C. Wu

11.547[J] Global Aging & the Built Environment
Same subject as SCM.287[J]
Prereq: None
G (Spring)
3-0-9 units
Combines classroom lectures/discussion, readings, site visits,
and field study to provide students with experience in various
research techniques including stakeholder analysis, interviewing,
photography and image analysis, focus groups, etc. Students
examine the impacts of global demographic transition, when there
are more older than younger people in a population, and explore
emerging challenges in the built environment (e.g., age-friendly
community planning, public transportation access, acceptance
of driverless cars, social wellbeing and connectivity, housing and
community design, design and use of public and private spaces, and
the public health implications of climate change and aging).
J. F. Coughlin

11.592 Renewable Energy Facility Siting Clinic (New)
Subject meets with 11.092
Prereq: None
G (Fall, Spring)
2-4-6 units
Presents methods for resolving facility siting disputes, particularly
those involving renewable energy. After completing four modules
and a competency exam for MITx certification, students work
in teams to help client communities in various cities around
the United States. Through direct interactions with the proponents
and opponents of facilities subject to local opposition, students
complete a stakeholder assessment and offer joint fact-finding
and collaborative problem-solving assistance. The political, legal,
financial, and regulatory aspects of facility siting, particularly
for renewable energy, are reviewed along with key infrastructure
planning principles. Students taking the graduate version complete
additional assignments. Limited to 15.
L. Susskind
11.601 Theory and Practice of Environmental Planning
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Fall)
3-0-9 units
Required introductory subject for graduate students pursuing the Environmental Planning Certificate. Strongly suggested for MCP students pursuing EPP as their specialization. Also open to other graduate students interested in environmental justice, environmental ethics, environmental dispute resolution, and techniques of environmental problem-solving. Taught comparatively, with numerous references to examples from around the world. Four major areas of focus: national environmental policymaking, environmental ethics, environmental forecasting and analysis techniques, and strategies for collaborative decision-making.
L. Susskind

11.630[J] Environmental Law, Policy, and Economics: Pollution Prevention and Control
Same subject as 1.811[J], 15.663[J], IDS.540[J]
Subject meets with 1.801[J], 11.021[J], 17.393[J], IDS.060[J]
Prereq: None
G (Spring)
3-0-9 units
Analyzes federal and state regulation of air and water pollution, hazardous waste, greenhouse gas emissions, and production/use of toxic chemicals. Analyzes pollution/climate change as economic problems and failure of markets. Explores the role of science and economics in legal decisions. Emphasizes use of legal mechanisms and alternative approaches (i.e., economic incentives, voluntary approaches) to control pollution and encourage chemical accident and pollution prevention. Focuses on major federal legislation, underlying administrative system, and common law in analyzing environmental policy, economic consequences, and role of the courts. Discusses classical pollutants and toxic industrial chemicals, greenhouse gas emissions, community right-to-know, and environmental justice. Develops basic legal skills: how to read/understand cases, regulations, and statutes. Students taking graduate version explore the subject in greater depth.
N. Ashford, C. Caldart

11.631[J] Regulation of Chemicals, Radiation, and Biotechnology
Same subject as 1.812[J], IDS.541[J]
Subject meets with 1.802[J], 10.805[J], 11.022[J], IDS.061[J], IDS.436[J]
Prereq: IDS.540[J] or permission of instructor
G (Spring)
Not offered regularly; consult department
3-0-9 units
Focuses on policy design and evaluation in the regulation of hazardous substances and processes. Includes risk assessment, industrial chemicals, pesticides, food contaminants, pharmaceuticals, radiation and radioactive wastes, product safety, workplace hazards, indoor air pollution, biotechnology, victims' compensation, and administrative law. Health and economic consequences of regulation, as well as its potential to spur technological change, are discussed for each regulator regime. Students taking the graduate version are expected to explore the subject in greater depth.
N. Ashford, C. Caldart

11.651[J] USA Lab: Bridging the American Divides
Same subject as 15.679[J]
Prereq: None
G (Spring)
3-1-5 units
See description under subject 15.679[J].
L. Hafrey, C. McDowell

11.652[J] Research Seminar on Technology and the Work of the Future
Same subject as STS.465[J]
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units
See description under subject STS.465[J]. Limited to 15.
D. Mindell, E. B. Reynolds
11.701 International Development Planning: Foundations
Prereq: None
G (Fall)
3-0-9 units
Offers a survey of the histories and theories of international development, and the main debates about the role of key actors and institutions in development. Includes a focus on the impact of colonialism, the main theoretical approaches that have influenced the study and practice of development, as well as the role of actors such as states, markets, and civil society in development. Focuses on the interactions between interventions and institutions on local, national, and global/transnational scales. Offers an opportunity to develop a focus on selected current topics in development planning, such as migration, displacement, participatory planning, urban-rural linkages, corruption, legal institutions, and post-conflict development. Restricted to first-year MCP and SPURS students.
B. Rajagopal

Tutorials, Research, and Fieldwork Subjects

11.800 Reading, Writing and Research
Prereq: 11.233; Coreq: 11.801
G (Spring)
3-0-6 units
Required subject intended solely for 1st-year DUSP PhD students. Develops capacity of doctoral students to become independent scholars by helping them to prepare their first-year papers and plan for their dissertation work. Focuses on the process by which theory, research questions, literature reviews, and new data are synthesized into new and original contributions to the literature. Seminar is conducted with intensive discussions, draft writing, peer review, revisions, and editing. Guest speakers from faculty and advanced students discuss strategies and potential pitfalls with doctoral-level research.
M. Arcaya

11.801 Doctoral Research Paper
Prereq: None. Coreq: 11.800; permission of instructor
G (Spring)
3-0-6 units
Students develop a first-year research paper in consultation with their advisor.
Staff

11.901 Independent Study: Urban Studies and Planning
Prereq: Permission of instructor
G (Fall, IAP, Spring)
Units arranged
Can be repeated for credit.
Opportunity for independent study under regular supervision by a faculty member.
Staff

11.902 Independent Study: Urban Studies and Planning
Prereq: Permission of instructor
G (Fall, IAP, Spring)
Units arranged [P/D/F]
Can be repeated for credit.
Opportunity for independent study under regular supervision by a faculty member.
Staff

11.903 Supervised Readings in Urban Studies
Prereq: Permission of instructor
G (Fall, IAP, Spring)
Units arranged [P/D/F]
Can be repeated for credit.
Reading and discussion of topics in urban studies and planning.
Staff

11.904 Supervised Readings in Urban Studies
Prereq: Permission of instructor
G (Fall, Spring, Summer)
Units arranged
Can be repeated for credit.
Reading and discussion of topics in urban studies and planning.
Staff

11.905 Research Seminar in Urban Studies and Planning
Prereq: Permission of instructor
G (Fall, IAP, Spring)
Units arranged
Can be repeated for credit.
Special research issues in urban planning.
Staff
11.906 Research Seminar in Urban Studies and Planning
Prereq: None
G (Fall, IAP, Spring)
Units arranged [P/D/F]
Can be repeated for credit.

Special research issues in urban planning.

11.907 Urban Fieldwork
Prereq: Permission of instructor
G (Fall, IAP, Spring)
Units arranged [P/D/F]
Can be repeated for credit.

Practical application of planning techniques to towns, cities, and regions, including problems of replanning, redevelopment, and renewal of existing communities. Includes internships, under staff supervision, in municipal and state agencies and departments.

11.908 Urban Fieldwork
Prereq: None
G (Fall, IAP, Spring)
Units arranged
Can be repeated for credit.

Practical application of planning techniques to towns, cities, and regions, including problems of replanning, redevelopment, and renewal of existing communities. Includes internships, under staff supervision, in municipal and state agencies and departments.

11.909 Graduate Tutorial
Prereq: None
G (Fall)
Units arranged [P/D/F]
Can be repeated for credit.

Planned programs of instruction for a minimum of three students on a planning topic not covered in regular subjects of instruction. Registration subject to prior arrangement with appropriate faculty member.

11.910 Doctoral Tutorial
Prereq: None
G (Fall)
Not offered regularly; consult department
3-0-3 units

Required subject exclusively for first-year DUSP PhD candidates, but with multiple colloquium sessions open to the full department community. Introduces students to a range of department faculty (and others) by offering opportunities to discuss applications of planning theory and planning history. Assists in clarifying the departments intellectual diversity. Encourages development of a personal intellectual voice and capacity to synthesize and respond to the arguments made by others.

L. Vale, J. Zhao

11.912[J] Advanced Urbanism Colloquium
Same subject as 4.275[J]
Prereq: Permission of instructor
G (Fall, Spring)
1-1-1 units
Can be repeated for credit.

See description under subject 4.275[J]. Preference to doctoral students in the Advanced Urbanism concentration.

Consult S. Williams

11.919 PhD Workshop (New)
Prereq: None
G (Fall, Spring)
0-1-0 units
Can be repeated for credit.

The workshop features doctoral student progress on dissertation formulation and findings across all years, panels of particular interest to doctoral students as identified by their representatives on the PhD Committee, and an intellectual space for the sharing of ideas and initiatives within the doctoral community and across the department, including faculty. Limited to all doctoral students in residence.

G. Carolini
11.920 Planning in Practice
Prereq: Permission of instructor
G (Fall, IAP, Spring, Summer)
Units arranged [P/D/F]
Can be repeated for credit.

Familiarizes students with the practice of planning, by requiring actual experience in professional internship placements. Enables students to both apply what they are learning in their classes in an actual professional setting and to reflect, using a variety of platforms, on the learning -- personal and professional -- growing out of their internship experience. Through readings, practical experience and reflection, empirical observation, and contact with practitioners, students gain deeper general understanding of the practice of the profession.

M. J. Daly

11.930 Advanced Seminar on Planning Theory
Prereq: None
G (Spring)
2-0-10 units

Introduces students to key debates in the field of planning theory, drawing on historical development of the field of urban/regional/national planning from 1900 to 2020 in both the US and in newly industrializing countries. Class objectives are for students to develop their own theory of action as they become sensitized to issues of racial and gender discrimination in city building, and understand how planning styles are influenced by a range of issues, including the challenge of ethical practice.

B. Sanyal

11.960 Independent Study: Real Estate
Prereq: None
G (Fall, IAP, Spring, Summer)
Units arranged [P/D/F]
Can be repeated for credit.

Opportunity for independent study under regular supervision by a faculty member.

Staff

11.961 Independent Study: Real Estate
Prereq: None
G (Fall, IAP, Spring, Summer)
Units arranged
Can be repeated for credit.

Opportunity for independent study under regular supervision by a faculty member.

Staff

11.962 Fieldwork: Real Estate
Prereq: Permission of instructor
G (Fall, IAP, Spring, Summer)
Units arranged [P/D/F]
Can be repeated for credit.

Practical application of real estate techniques in the field.

Staff

11.963 Independent Study: Real Estate
Prereq: Permission of instructor
G (Fall, IAP, Spring, Summer)
Units arranged
Can be repeated for credit.

Opportunity for independent study under regular supervision by a faculty member.

Staff

11.964 Independent Study: Real Estate
Prereq: Permission of instructor
G (Fall, IAP, Spring, Summer)
Units arranged [P/D/F]
Can be repeated for credit.

Opportunity for independent study under regular supervision by a faculty member.

Staff

11.985 Summer Field Work
Prereq: None
G (Summer)
Units arranged [P/D/F]
Can be repeated for credit.

Practical application of planning techniques over the summer with prior arrangement.

S. Wellford

11.5938 Special Subject: Urban Studies and Planning
Prereq: None
G (Spring)
Units arranged
Can be repeated for credit.

For graduate students wishing to pursue further study in advanced areas of urban studies and planning not covered in regular subjects of instruction.

Staff
11.S939 Special Subject: Urban Studies and Planning
Prereq: None
G (Spring)
Units arranged
Can be repeated for credit.

For graduate students wishing to pursue further study in advanced areas of urban studies and city and regional planning not covered in regular subjects of instruction.

Staff

Prereq: Permission of instructor
G (Fall, Spring)
Units arranged
Can be repeated for credit.

For graduate students wishing to pursue further study in advanced areas of urban studies and city and regional planning not covered in regular subjects of instruction.

M. Kothari

11.S948 Special Subject: Urban Studies and Planning
Prereq: Permission of instructor
G (Fall)
Units arranged
Can be repeated for credit.

For graduate students wishing to pursue further study in advanced areas of urban studies and city and regional planning not covered in regular subjects of instruction.

Staff

Prereq: Permission of instructor
G (Fall)
Units arranged
Can be repeated for credit.

For graduate students wishing to pursue further study in advanced areas of urban studies and city and regional planning not covered in regular subjects of instruction.

Staff

Prereq: Permission of instructor
G (Fall, IAP)
Units arranged [P/D/F]
Can be repeated for credit.

For graduate students wishing to pursue further study in advanced areas of urban studies and city and regional planning not covered in regular subjects of instruction.

Staff

11.S958 Special Seminar: Urban Studies and Planning
Prereq: Permission of instructor
G (Fall)
Units arranged [P/D/F]
Can be repeated for credit.

For graduate students wishing to pursue further study in advanced areas of urban studies and city and regional planning not covered in regular subjects of instruction.

Staff

Prereq: Permission of instructor
G (Fall)
Units arranged [P/D/F]
Can be repeated for credit.

For graduate students wishing to pursue further study in advanced areas of urban studies and city and regional planning not covered in regular subjects of instruction.

Staff

11.S965 Special Subject: Real Estate
Prereq: Permission of instructor
G (Fall; second half of term)
Units arranged [P/D/F]
Can be repeated for credit.

Small group study of advanced subjects under staff supervision. For graduate students wishing to pursue further study in advanced areas of real estate not covered in regular subjects of instruction.

Staff

11.S966 Special Subject: Real Estate
Prereq: Permission of instructor
G (Fall, IAP, Spring, Summer; second half of term)
Units arranged
Can be repeated for credit.

Small group study of advanced subjects under staff supervision. For graduate students wishing to pursue further study in advanced areas of real estate not covered in regular subjects of instruction.

Staff
11.S967 Special Subject: Real Estate
Prereq: Permission of instructor
G (Spring; first half of term)
Not offered regularly; consult department
Units arranged
Can be repeated for credit.
Small group study of advanced subjects under staff supervision. For graduate students wishing to pursue further study in advanced areas of real estate not covered in regular subjects of instruction.
Staff

11.S968 Special Seminar: Real Estate
Prereq: Permission of instructor
G (Spring)
Not offered regularly; consult department
Units arranged [P/D/F]
Can be repeated for credit.
Small group study of advanced subjects under staff supervision. For graduate students wishing to pursue further study in advanced areas of real estate not covered in regular subjects of instruction.
Staff

11.S969 Special Seminar: Real Estate
Prereq: Permission of instructor
G (Fall)
Units arranged
Can be repeated for credit.
Small group study of advanced subjects under staff supervision. For graduate students wishing to pursue further study in advanced areas of real estate not covered in regular subjects of instruction.
Staff

11.S970 Special Seminar: Real Estate
Prereq: Permission of instructor
G (Spring; second half of term)
Units arranged
Can be repeated for credit.
Small group study of advanced subjects under staff supervision. For graduate students wishing to pursue further study in advanced areas of real estate not covered in regular subjects of instruction.

11.THG Graduate Thesis
Prereq: Permission of instructor
G (Fall, IAP, Spring, Summer)
Units arranged
Can be repeated for credit.
Program of research and writing of thesis; to be arranged by the student with supervising committee.
Staff

Consult Catalog Faculty